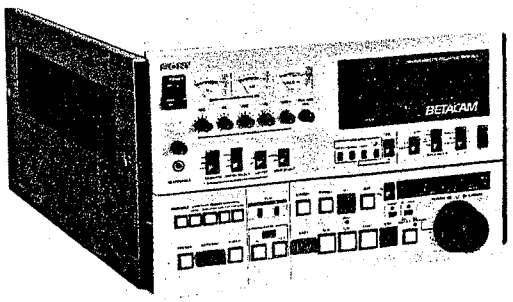
SONY

VIDEOCASSETTE RECORDER

BVW-40S



BETACAM

OPERATION AND MAINTENANCE MANUAL

Volume 2 2nd Edition

Serial No. 10011 to 10025

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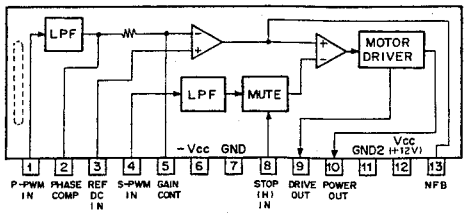
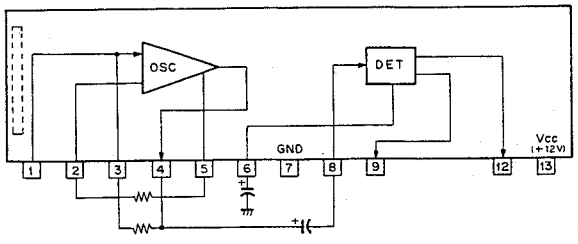
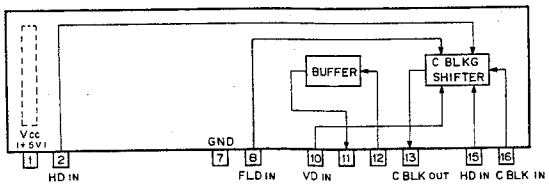


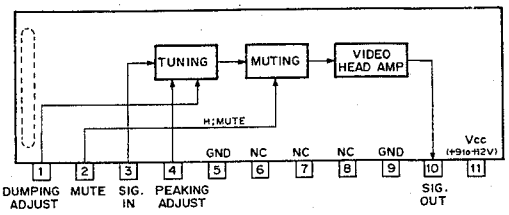
BX343 (SONY)
OSCILLATOR/DETECTOR
— REAR VIEW —



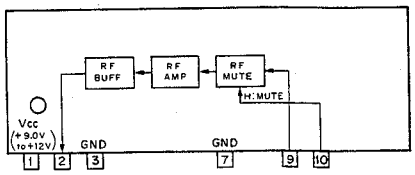
BX1183 (SONY)
C BLKG SHIFTER (1H)
— REAR VIEW —



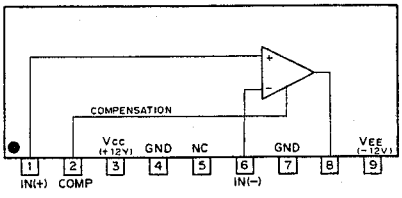
BX350 (SONY)
BX350A (SONY)
VIDEO HEAD AMP/MUTING
— REAR VIEW —



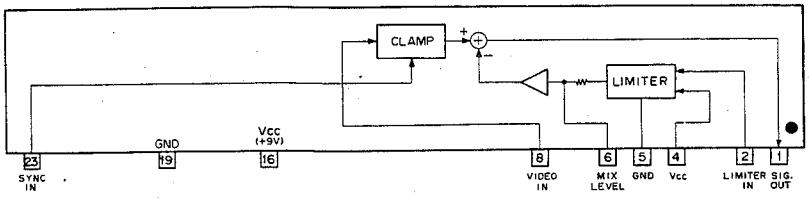
BX1265 (SONY)
VIDEO HEAD AMPLIFIER/MUTING
— PRINTED SIDE VIEW —



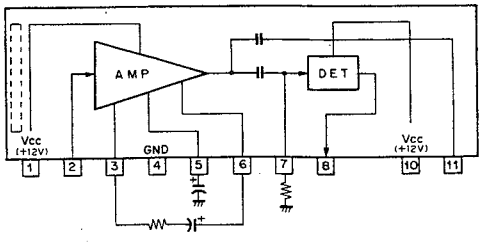
BX365A (SONY)
VIDEO AMPLIFIER
— SIDE VIEW —



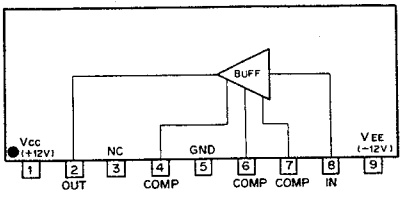
BX1282 (SONY)
VIDEO CLAMP/HIGH FREQUENCY COMPONENT PRE-EMPHASIS
— PRINTED SIDE VIEW —



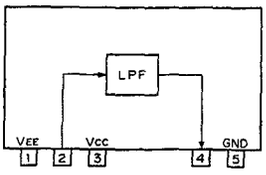
BX342 (SONY)
AMPLIFIER/DETECTOR
— REAR VIEW —



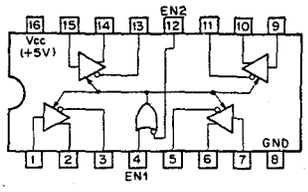
BX366A (SONY)
VIDEO BUFFER
— SIDE VIEW —



AFL25F15000G1 (MURATA)
BX-1343A (SONY)
ACTIVE LOW-PASS FILTER
— IMPRINTED SIDE VIEW —



AM26LS31PC (ADVANCED MICRO DEVICE)
HIGH SPEED DIFFERENTIAL LINE DRIVER
— TOP VIEW —

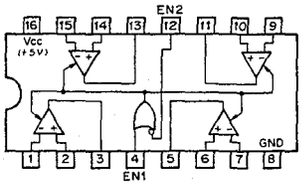


FUNCTION TABLE

EN2	EN1	OUTPUT
0	0	ENABLE
0	1	ENABLE
1	0	HI-Z
1	1	ENABLE

0 ; LOW LEVEL
1 ; HIGH LEVEL
HI-Z ; HIGH IMPEDANCE

AM26LS32PC (ADVANCED MICRO DEVICES)
HIGH SPEED DIFFERENTIAL LINE RECEIVER
— TOP VIEW —



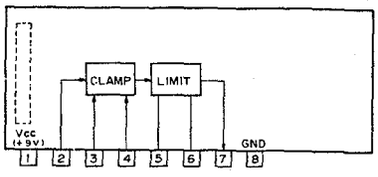
FUNCTION TABLE

EN2	EN1	OUTPUT
0	0	ENABLE
0	1	ENABLE
1	0	HI-Z
1	1	ENABLE

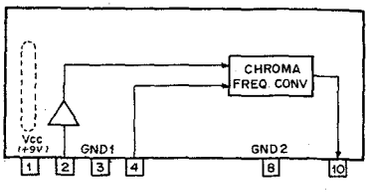
0 ; LOW LEVEL
1 ; HIGH LEVEL
HI-Z ; HIGH IMPEDANCE

	SENSE	INPUT VOLT
LS32	±200mV	±7V
LS33	±500mV	±15V

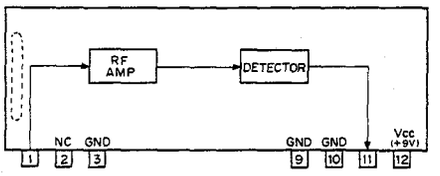
BX1010 (SONY)
LIMITER
— REAR VIEW —



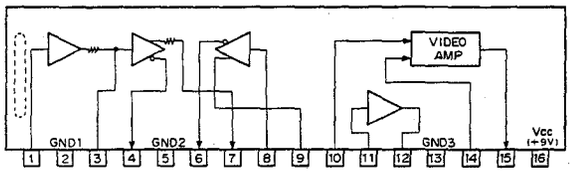
BX1056 (SONY)
CHROMA FREQUENCY CONVERTER
— REAR VIEW —



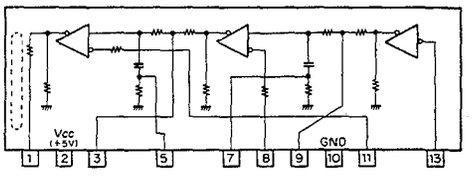
BX1098 (SONY)
RF METER DRIVER
— REAR VIEW —



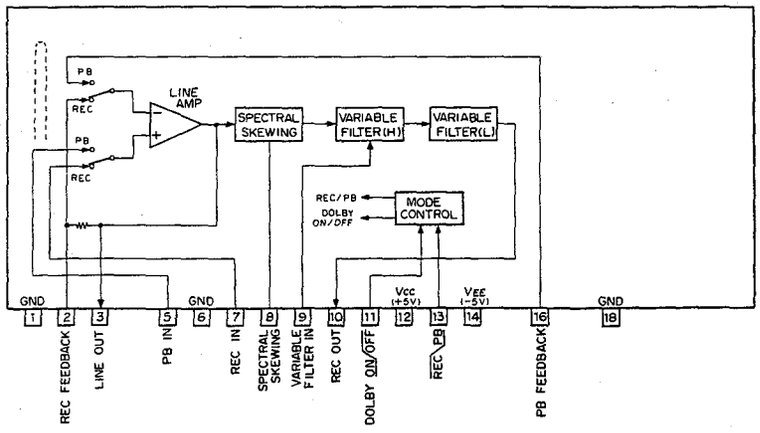
BX1099 (SONY)
ACTIVE EQUALIZER
— REAR VIEW —



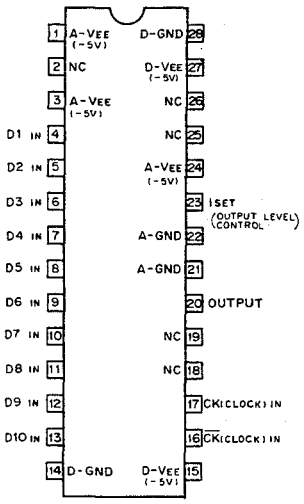
BX1140 (SONY)
HF AMP
— REAR VIEW —

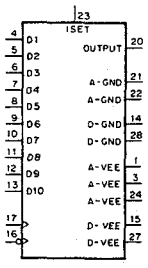


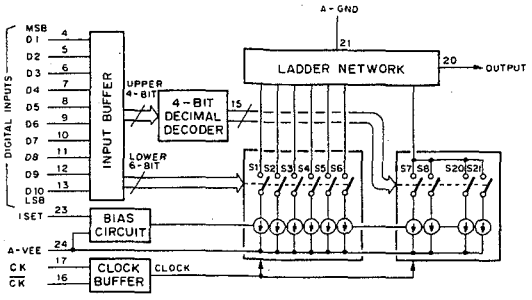
BX1152 (SONY)
DOLBY (C TYPE) NOISE REDUCTION SYSTEM
— REAR VIEW —



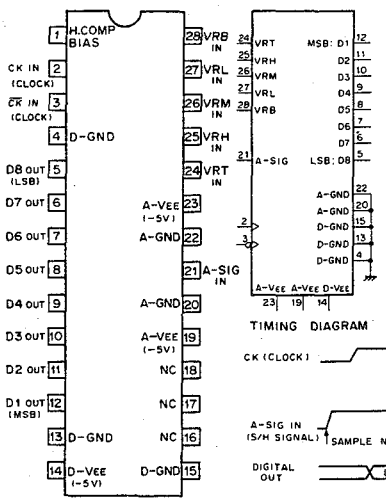
CX20051 (SONY)
CX20051A (SONY)
10-BIT D/A CONVERTER (ECL INPUT)
— TOP VIEW —







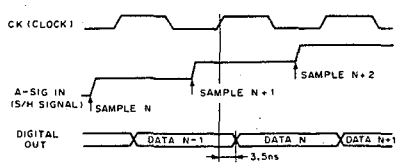
CX20052 (SONY)
CX20052A (SONY)
8-BIT FEED-FORWARD TYPE A/D CONVERTER (ECL OUTPUT)
— TOP VIEW —



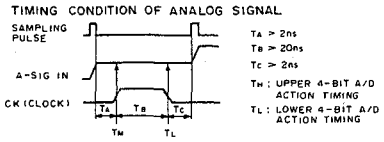
OUTPUT CODING

STEP	RANGE EX. 2.000V FULL SCALE	OUTPUTS MSB LSB
000	0.0000V	11111111
001	-0.0078V	11111110
:		:
127	-0.9961V	10000000
128	-1.0039V	01111111
129	-1.0118V	01111110
:		:
255	-2.0000V	00000000

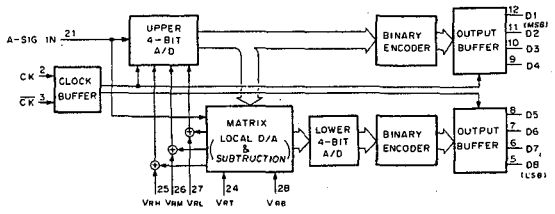
TIMING DIAGRAM



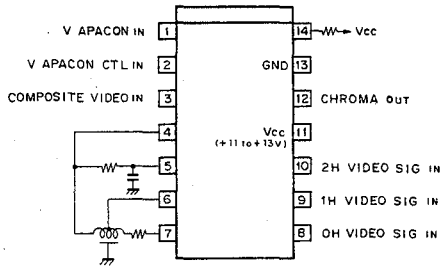
TIMING CONDITION OF ANALOG SIGNAL

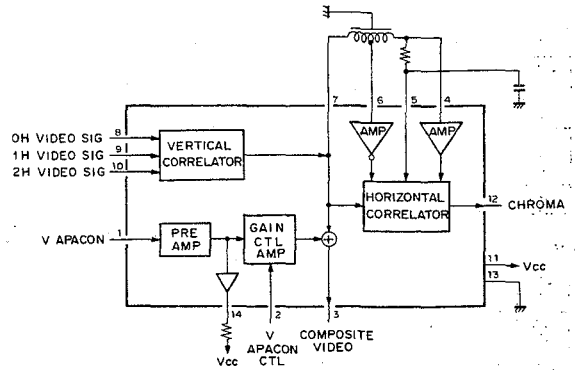


TA > 2ns
TB > 20ns
TC > 2ns
TH : UPPER 4-BIT A/D ACTION TIMING
TL : LOWER 4-BIT A/D ACTION TIMING

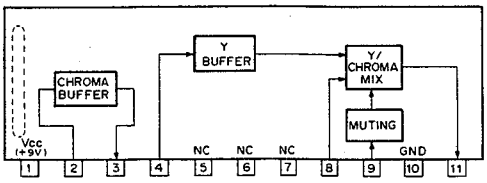


CX22013 (SONY)
DYNAMIC COMB FILTER
— TOP VIEW —

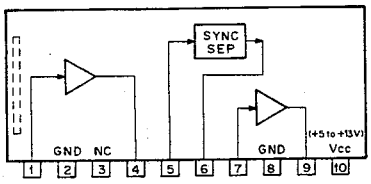




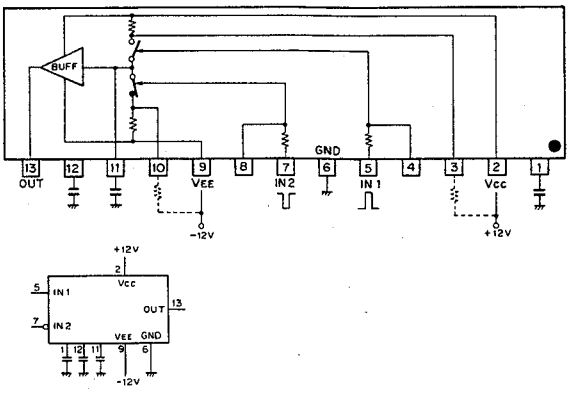
BX373 (SONY)
BX373A (SONY)
MIX AMP
— REAR VIEW —



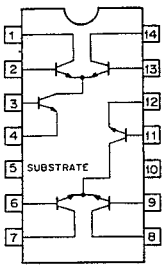
BX3915A (SONY)
SYNC SEPARATOR
— PRINTED SIDE —



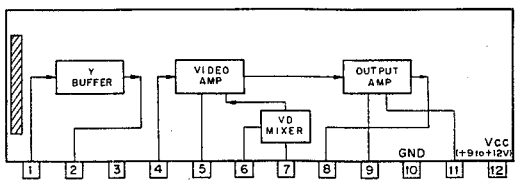
BX381 (SONY)
PHASE COMPARATOR
— SIDE VIEW —



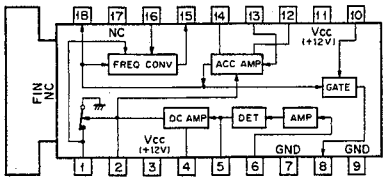
CA3054 (RCA)
DIFFERENTIAL AMPLIFIER
— TOP VIEW —



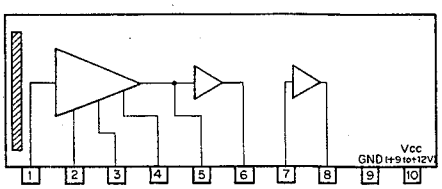
BX388 (SONY)
VIDEO AMP/VD MIXER
— PRINTED SIDE —



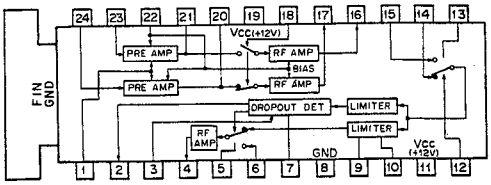
CX133A (SONY)
GAIN CONTROL/BALANCED MODULATOR
— TOP VIEW —



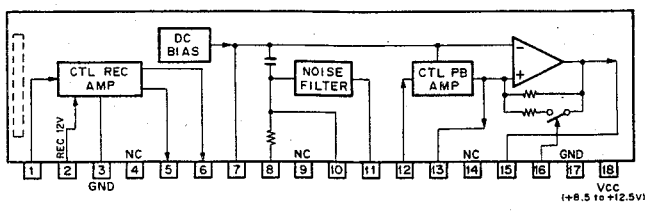
BX389 (SONY)
VIDEO AMPLIFIER
— PRINTED SIDE —



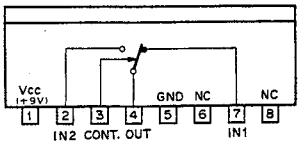
CX134A (SONY)
HEAD AMP/DROPOUT COMPENSATOR
— TOP VIEW —



BX3914 (SONY)
CTL REC/PB AMPLIFIER
— PRINTED SIDE —



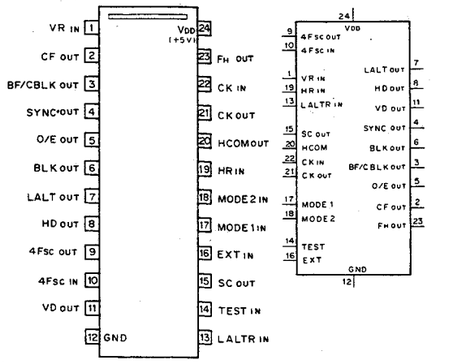
CX20061 (SONY)
ANALOG SWITCH
— SIDE VIEW —



CONT.	SW
0	
1	

0 ; LOW LEVEL
1 ; HIGH LEVEL

CX773A (SONY)
CX773A-1 (SONY)
C-MOS SYNC GENERATOR (NTSC, PAL-M, PAL SECAM)
— TOP VIEW —



O/E : ODD/EVEN FIELD
CF : COLOR FRAME PULSE
HCOM : H COMPARATOR

SYSTEM	4Fsc	CLOCK
NTSC	910 FH	910FH
PAL	1135FH+2Fv	908FH
PALM	909FH	910FH
SECAM	———	908FH

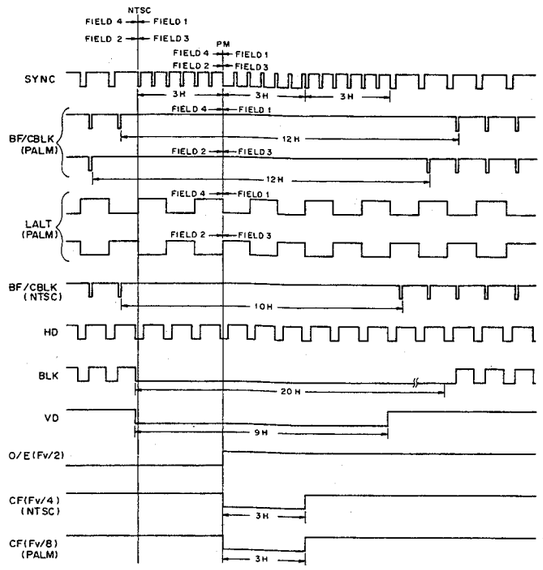
INPUTS		SYSTEM
MODE 1	MODE 2	
0	0	NTSC
0	1	SECAM
1	0	PALM
1	1	PAL

INPUTS		FUNCTION
EXT	TEST	
0	0	INTERNAL
0	1	INVALID
1	0	EXT
1	1	TEST

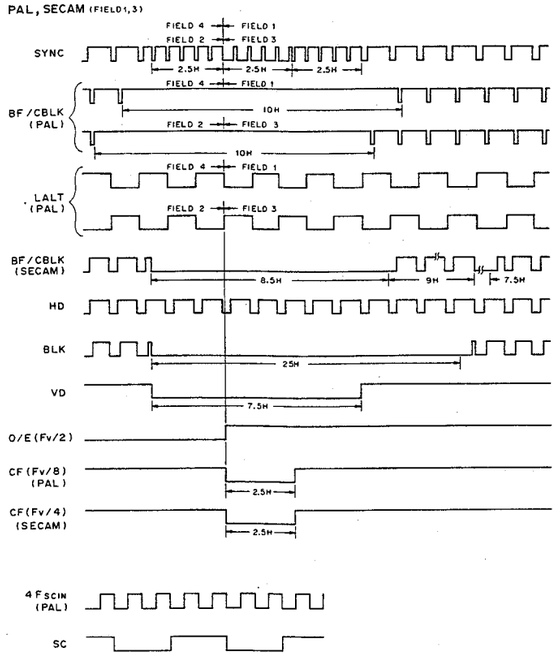
0 ; LOW LEVEL (GND)
1 ; HIGH LEVEL (VDD)

TEST "0" OPEN (INTERNALLY PULLED DOWN)

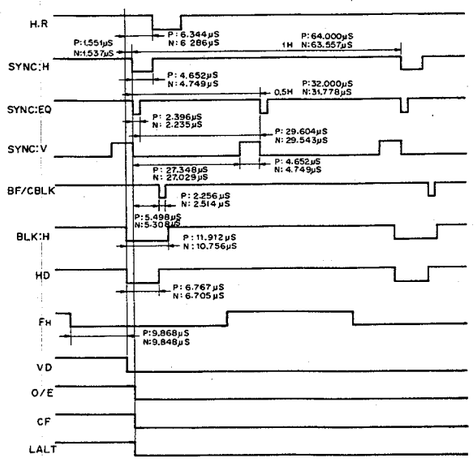
NTSC, PAL-M (FIELD 1,3)

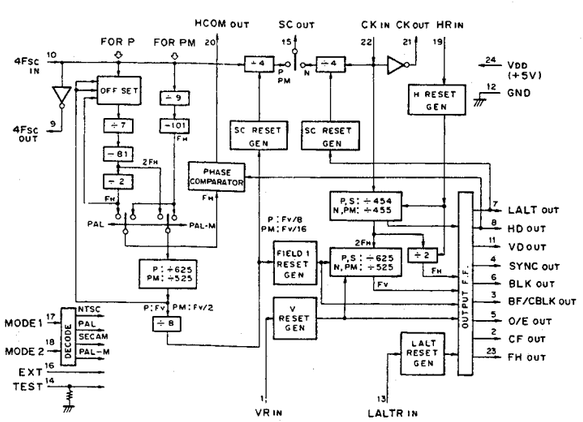


PAL, SECAM (FIELD1,3)

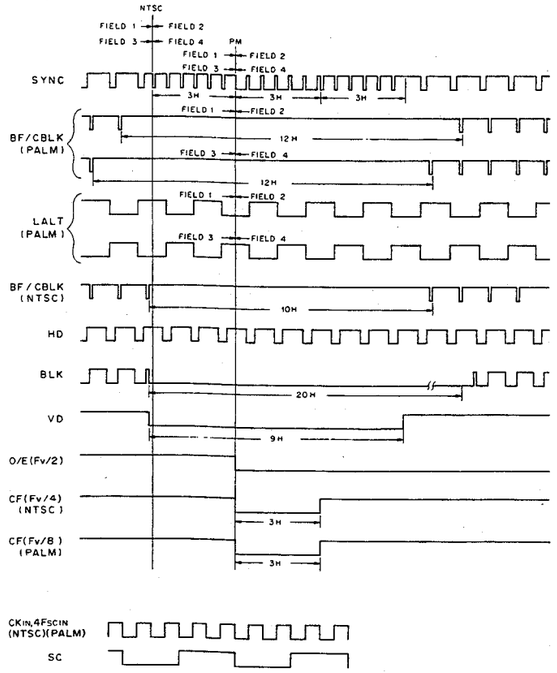


P:PAL, SECAM
N:NTSC, PALM

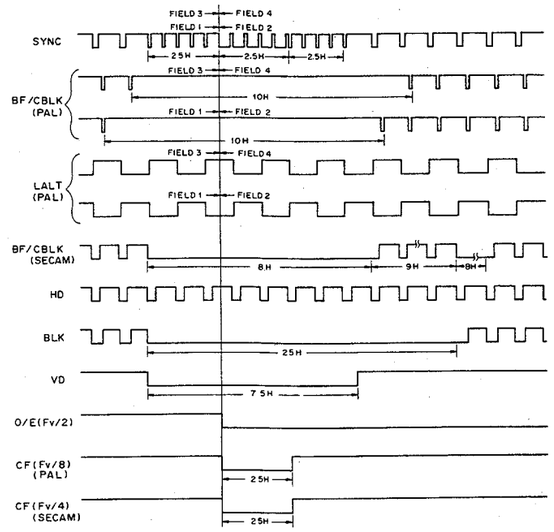




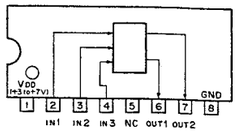
NTSC, PAL-M (FIELD 2,4)

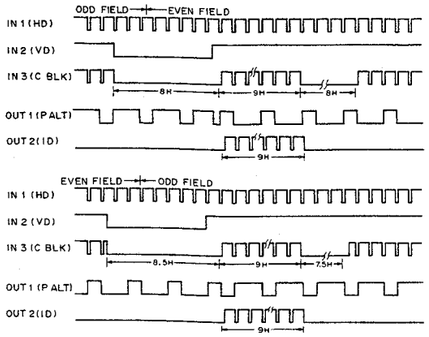


PAL, SECAM (FIELD 4,2)

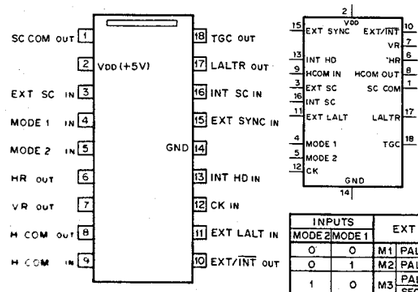


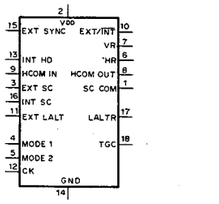
CX787 (SONY)
C-MOS TIMING PULSE GENERATOR
— SIDE VIEW —





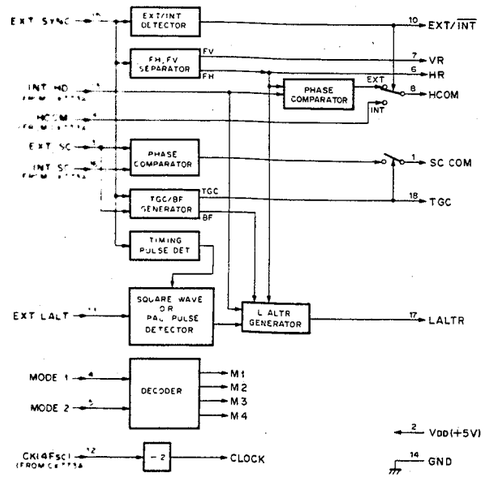
CX7903 (SONY)
C-MOS GENLOCK DRIVER FOR CX773A
— TOP VIEW —



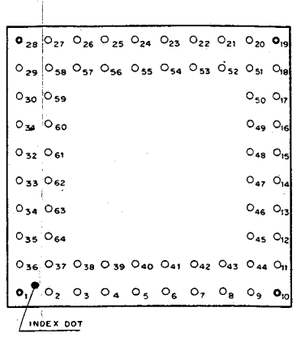


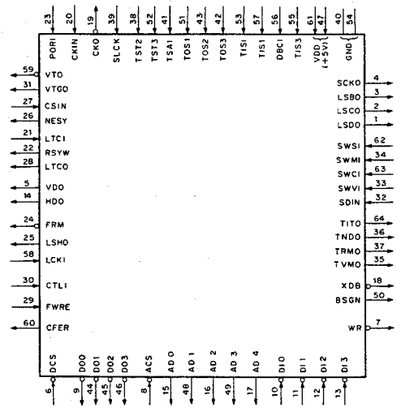
INPUTS MODE 2	INPUTS MODE 1	EXT LOCK MODE	
0	0	M1	PAL: VBS
0	1	M2	PALM: VBS
1	0	M3	PAL: VS/SC/LALT SECAM: VS/SC/LALT
1	1	M4	NTSC: VBS NTSC: VS/SC PALM: VS/SC/LALT

0 ; LOW LEVEL
1 ; HIGH LEVEL



CX7907A (SONY)
C-MOS TIME CODE GENERATOR
— TOP VIEW —





PIN ASSIGNMENT

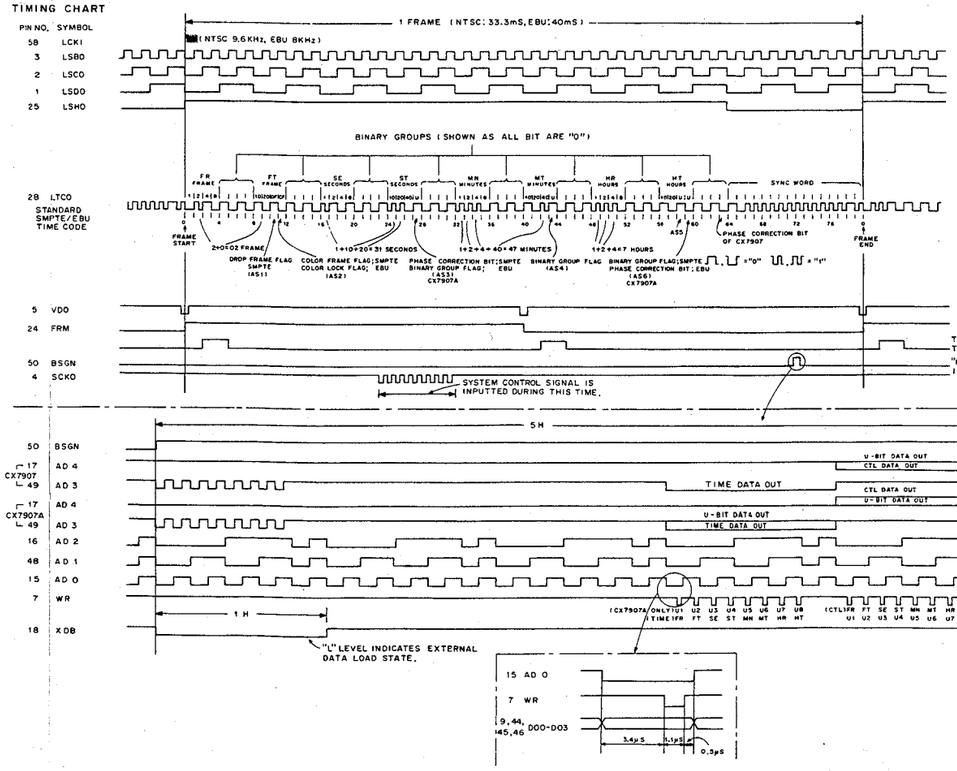
Pin No.	IN	OUT	SYMBOL
1		o	LSDO
2		o	LSCO
3		o	LSBO
4		o	SCKO
5		o	VDO
6	o		DCS
7		o	WR
8	o		ACS
9		o	DO0
10	o		DI0
11	o		DI1
12	o		DI2
13	o		DI3
14		o	HDO
15		o	AD0
16		o	AD2

Pin No.	IN	OUT	SYMBOL
17		o	AD4
18		o	XDB
19		o	CKO
20	o		CKIN
21	o		LTCI
22		o	RSYW
23	o		PORI
24		o	FRM
25		o	LSHO
26		o	NESY
27	o		CSIN
28		o	LTCO
29	o		FWRE
30	o		CTLI
31		o	VTGO
32	o		SDIN

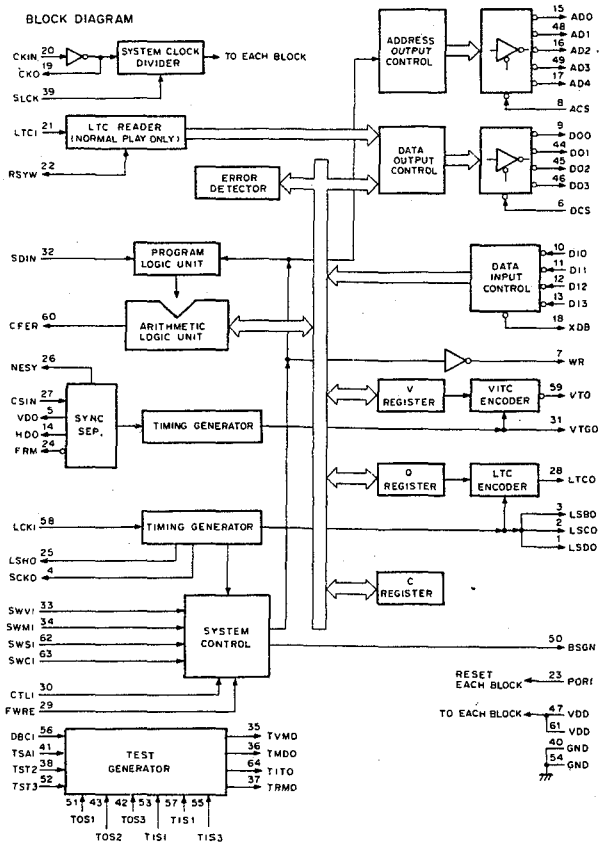
Pin No.	IN	OUT	SYMBOL
33	o		SWVI
34	o		SWMI
35		o	TVMO
36		o	TNDO
37		o	TRMO
38	o		TST2
39	o		SLCK
40		o	GND
41	o		TSAI
42	o		TOS3
43	o		TOS2
44		o	DO1
45		o	DO2
46		o	DO3
47	o		VDD (+5V)
48		o	AD1

Pin No.	IN	OUT	SYMBOL
49		o	AD3
50		o	BSGN
51	o		TOS1
52	o		TST3
53	o		TISI
54		o	GND
55	o		TIS3
56	o		DBCI
57	o		TISI
58	o		LCKI
59		o	VTO
60		o	CFER
61	o		VDD (+5V)
62	o		SWSI
63	o		SWCI
64		o	TITO

TIMING CHART



BLOCK DIAGRAM



FUNCTIONAL PIN DEFINITION

Pin No.	SYMBOL	DESCRIPTION
8	ACS	ADDRESS LINE CHIP SELECT INPUT
15	AD0	ADDRESS DATA OUTPUT
48	AD1	
16	AD2	
49	AD3	
17	AD4	
50	BSGN	BUSY GENERATOR OUTPUT
60	CFER	COLOR FRAME ERROR FLAG OUTPUT
20	CKIN	SYSTEM CLOCK INPUT
19	CKO	CLOCK OUTPUT
27	CSIN	COMPOSITE SYNC INPUT
30	CTLI	CTL(TIMER) SIGNAL INPUT (↑)
6	DCS	DATA LINE CHIP SELECT INPUT (NEGATIVE-LOGIC)
10	DI0	DATA BUS INPUT (NEGATIVE-LOGIC)
11	DI1	
12	DI2	
13	DI3	
9	DO0	DATA BUS OUTPUT (NEGATIVE-LOGIC)
44	DO1	
45	DO2	
46	DO3	
24	FRM	FRAME SIGNAL OUTPUT (NEGATIVE-LOGIC)
29	FWRE	CTL DIRECTION INPUT
14	HDO	HORIZONTAL SYNC DRIVE OUTPUT
58	LCKI	LTC CLOCK INPUT (SMPTE 9.6kHz/EBU 8kHz)
3	LSBO	*LTC SYNCHRONOUS SIGNAL B OUTPUT*
2	LSCO	LTC SYNCHRONOUS SIGNAL C OUTPUT
1	LSDO	LTC SYNCHRONOUS SIGNAL D OUTPUT
25	LSHO	LTC SYNCHRONOUS SIGNAL H OUTPUT
21	LTCI	LTC INPUT
28	LTCO	*LTC SIGNAL OUTPUT*
26	NESY	LOST-SYNC FLAG OUTPUT
23	PORI	POWER ON RESET INPUT
22	RSYW	READ SYNC WORD OUTPUT
4	SCKO	SWITCHES SIGNAL IN CLOCK OUTPUT
32	SDIN	SERIAL DATA INPUT
39	SLCK	SELECT CLOCK INPUT
63	SWCI	SWITCHES SIGNAL C INPUT
34	SWMI	SWITCHES SIGNAL M INPUT
62	SWSI	SWITCHES SIGNAL S INPUT
33	SWVI	SWITCHES SIGNAL V *INPUT*
5	VDO	VERTICAL SYNC DRIVE OUTPUT
31	VTGO	VITC GATE SIGNAL OUTPUT
59	VTO	VITC SIGNAL OUTPUT (NEGATIVE-LOGIC)
7	WR	WRITE SIGNAL OUTPUT (NEGATIVE-LOGIC)
18	XDB	EXTERNAL DATA BUS *IN FLAG OUTPUT (NEGATIVE-LOGIC)*
47	VDD	POWER LINE (+5V)
61	VDD	
40	GND	GND LINE
54	GND	
56	DBCI	*TEST INPUT* (TO BE CONNECTED WITH GND)
57	TIS1	
55	TIS3	
53	TISI	
51	TOS1	
43	TOS2	
42	TOS3	
41	TSAI	
38	TST2	
52	TST3	
64	TITO	TEST OUTPUT (TO BE LEFT OPEN)
36	TNDO	
37	TRMO	
35	TVMO	

#32 SDIN

LSDO	LSCO	LSBO	SDIN	FUNCTION
0	0	0	↑	INCREASE IN BIT 'FR or U1'
0	0	1		INCREASE IN BIT 'FT or U2'
0	1	0		INCREASE IN BIT 'SE or U3'
0	1	1		INCREASE IN BIT 'ST or U4'
1	0	0		INCREASE IN BIT 'MN or U5'
1	0	1		INCREASE IN BIT 'MT or U6'
1	1	0		INCREASE IN BIT 'HR or U7'
1	1	1		INCREASE IN BIT 'HT or U8'

NOTE;INFLUENCED BIT IS DECIDED BY FIRST 2 BITS OF SWCI.

#33 SWVI

LSDO	LSCO	LSBO	SWVI	FUNCTION
0	0	0	SW1A↑	VITC POSITION SELECT A
0	0	1	SW1B↑	
0	1	0	SW1C↑	
0	1	1	SW1D↑	
1	0	0	SW2A↑	VITC POSITION SELECT B
1	0	1	SW2B↑	
1	1	0	SW2C↑	
1	1	1	SW2D↑	

↑;VITC POSITION SELECT

SW1D SW2D	SW1C SW2C	SW1B SW2B	SW1A SW2A	INSERTION LINE NTSC	INSERTION LINE PAL,SECAM
0	0	0	0	LINE 25	LINE 22,335
0	0	0	1	24	21,334
0	0	1	0	23	20,333
0	0	1	1	22	19,332
0	1	0	0	21	18,331
0	1	0	1	20	17,330
0	1	1	0	19	16,329
0	1	1	1	18	15,328
1	0	0	0	17	14,327
1	0	0	1	16	13,326
1	0	1	0	15	12,325
1	0	1	1	14	11,324
1	1	0	0	13	10,323
1	1	0	1	12	9,322
1	1	1	0	11	8,321
1	1	1	1	10	7,320

#34 SWMI

LSDO	LSCO	LSBO	SWMI	FUNCTION
0	0	0	x	INSERT SWMI DATA INTO BIT 'AS1'(NEGATIVE-LOGIC)
0	0	1	x	INSERT SWMI DATA INTO BIT 'AS2'(NEGATIVE-LOGIC)
0	1	0	x	INSERT SWMI DATA INTO BIT 'AS3'(NEGATIVE-LOGIC)
0	1	1	x	INSERT SWMI DATA INTO BIT 'AS4'(NEGATIVE-LOGIC)
1	0	0	x	INSERT SWMI DATA INTO BIT 'AS5'(NEGATIVE-LOGIC)
1	0	1	x	INSERT SWMI DATA INTO BIT 'AS6'(NEGATIVE-LOGIC)
1	1	0	f	COLOR FRAME LOCK IN FIELD 1
1	1	1	0	COLOR FRAME OFF
1	1	1	1	COLOR FRAME ON

X;DON'T CARE.

#62 SWSI

LSDO	LSCO	LSBO	SWSI	FUNCTION
0	0	0	FBS1*	VITC FIELD MARK/ LTC PHASE CORRECTION POSITION SELECT
0	0	1	FBS2*	
0	1	0	FBS3*	
0	1	1	0	PHASE CORRECTION ON
0	1	1	1	PHASE CORRECTION OFF
1	0	0	S1**	SIGNAL FORMAT SELECT
1	0	1	S2**	
1	1	0	S4**	
1	1	1	x	-

x;DON'T CARE.

*;VITC FIELD MARK/LTC PHASE CORRECTION POSITION SELECT

FBS3	FBS2	FBS1	FIELD MARK POSITION	LTC BIT No.
0	0	0	AS1	10
0	0	1	AS2	11
0	1	0	AS3	27
0	1	1	AS4	43
1	0	0	AS5	58
1	0	1	AS6	59
1	1	0	-	-
1	1	1	-	-

NOTE;LTC PHASE CORRECTION BIT OF CX7907 IS FIXED ON BIT-63.

**;SIGNAL FORMAT SELECT

S4	S2	S1	FORMAT	FRAME
0	0	0	FILM	24
0	0	1	NOT ALLOWED	-
0	1	x		
1	0	0	PAL,SECAM	25
1	0	1	NOT ALLOWED	-
1	1	0	NTSC NDF	30
1	1	1	NTSC DF	30

DF;DROP FRAME
NDF;NON DROP FRAME
x;DON'T CARE.

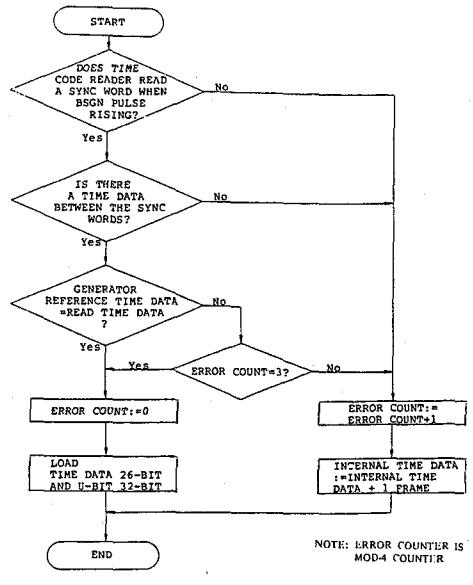
0;LOW LEVEL
1;HIGH LEVEL

#63 SWCI

LSDO	LSCO	LSBO	SWCI	FUNCTION	
0	0	0	0	U-BIT	IN/OUT DATA SELECT*1
0	0	0	1	TIME	
0	0	1	0	CTL	
0	0	1	1	TIME/U-BIT	
0	1	0	x	-	
0	1	1	0	DATA RESET ON*2	
0	1	1	1	DATA RESET OFF	
1	0	0	0	TIME DATA HOLD	
1	0	0	1	TIME DATA RUN	
1	0	1	1	EXTERNAL DATA LOAD*2	
1	1	0	0	EXTRAPOLATION ON	
1	1	0	1	EXTRAPOLATION OFF	
1	1	1	x	-	

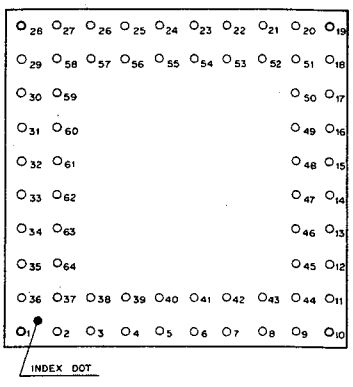
x; DON'T CARE.
*1;REFER TO TIMING CHART(DATA OUT).
*2;INFLUENCED DATA IS DECIDED BY FIRST 2 BITS OF SWCI.

ERROR BYPASS ALGORITHM



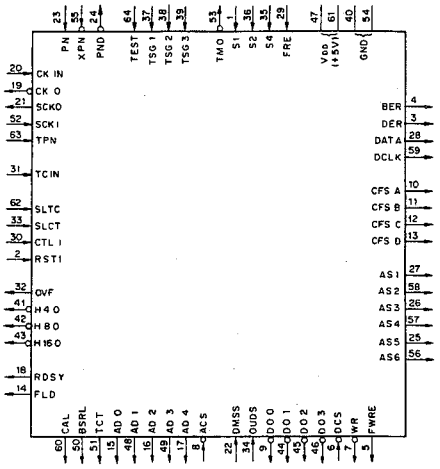
NOTE: ERROR COUNTER IS MOD-4 COUNTER

CX7912 (SONY)
CX7912A (SONY)
C-MOS TIME CODE READER
— TOP VIEW —



PIN ASSIGNMENT

PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL
1	○		S1	17		○	AD 4	33	○		SLCT	49		○	AD 3
2	○		RSTI	18		○	RDSY	34	○		OUDS	50		○	BSRL
3		○	DER	19		○	CK O	35	○		S4	51		○	TCT
4		○	BER	20	○		CK IN	36	○		S2	52	○		SCKI
5		○	FWRE	21		○	SCKO	37	○		TSG 1	53		○	TMO
6	○		DCS	22	○		DMSS	38	○		TSG 2	54		○	GND
7		○	WR	23	○		PN	39	○		TSG 3	55	○		XPN
8	○		ACS	24		○	PND	40		○	GND	56		○	AS6
9		○	DO 0	25		○	AS5	41		○	H 4 0	57		○	AS4
10		○	CFS A	26		○	AS3	42		○	H 8 0	58		○	AS2
11		○	CFS B	27		○	AS1	43		○	H 16 0	59		○	DCLK
12		○	CFS C	28		○	DATA	44		○	DO 1	60		○	CAL
13		○	CFS D	29	○		FRE	45		○	DO 2	61	○		VDD(+5V)
14		○	FLD	30	○		CTL 1	46		○	DO 3	62	○		SLTC
15		○	AD 0	31	○		TC IN	47	○		VDD(+5V)	63	○		TPN
16		○	AD 2	32			OVF	48		○	AD 1	64	○		TEST



MODE SELECT

SLCT	SLTC	MODE
0	0	AUTO
0	1	TIME CODE
1	0	CTL
1	1	AUTO

CTL COUNT

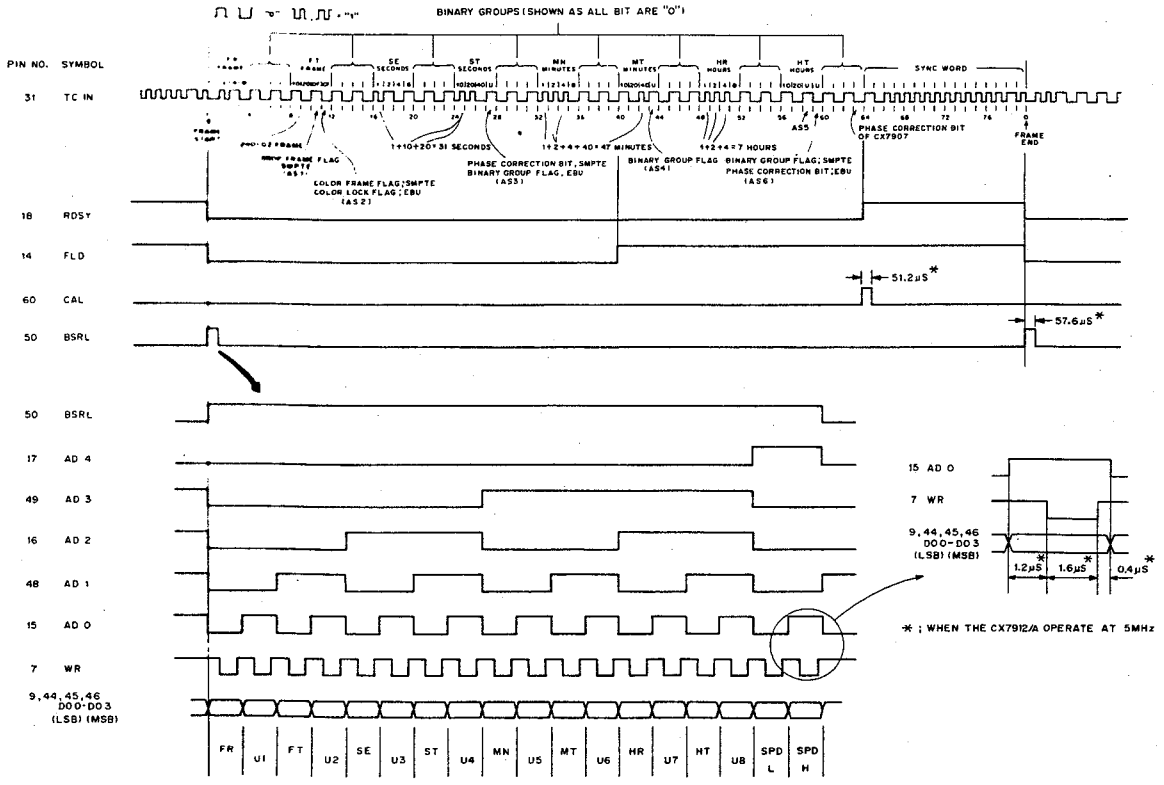
FRE	RSTI	COUNT
0	X	DOWN COUNT
1	X	UP COUNT
X	⌐	RESET

SIGNAL FORMAT SELECT

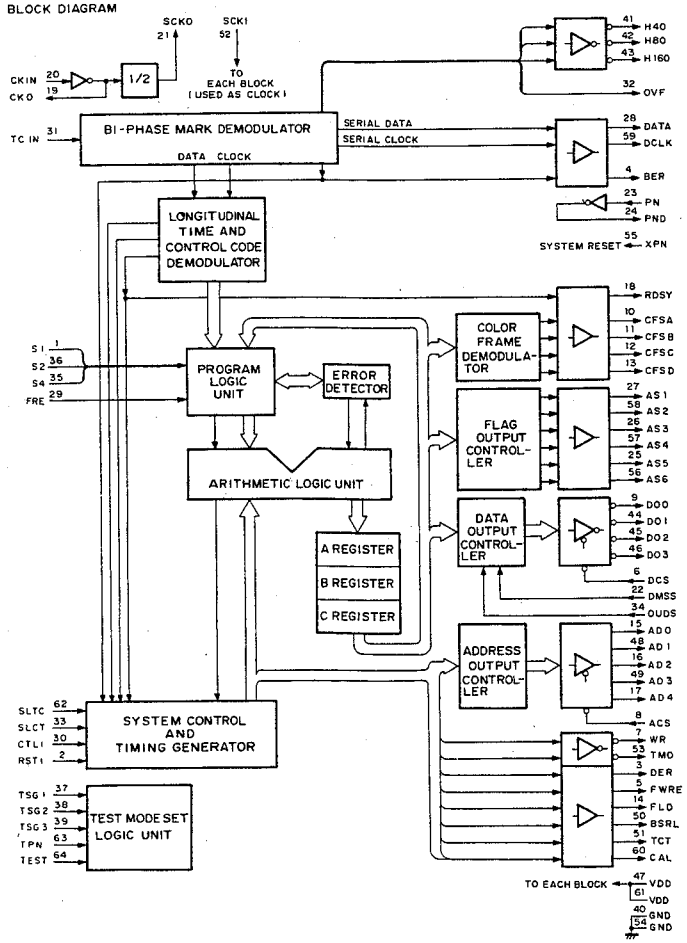
S4	S2	S1	FORMAT	FRAME
0	0	0	FILM	24
0	0	1	NOT ALLOWED	—
0	1	0		
0	1	1		
1	0	0	PAL, SECAM	25
1	0	1	NOT ALLOWED	—
1	1	0	NTSC (NON DROP FRAME)	30
1	1	1	NTSC (DROP FRAME)	30

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

TIMING CHART



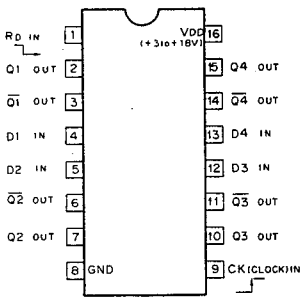
BLOCK DIAGRAM

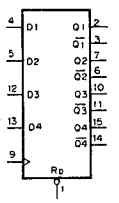


FUNCTIONAL PIN DEFINITION

Pin No.	SYMBOL	DESCRIPTION
8	ACS	ADDRESS LINE OUTPUT ENABLE (NEGATIVE-LOGIC)
15	AD0	ADDRESS DATA OUTPUT
48	AD1	
16	AD2	
49	AD3	
17	AD4	
27	AS1	PARALLEL DATA OUTPUT
58	AS2	
26	AS3	
57	AS4	
25	AS5	
56	AS6	
4	BER	BI-PHASE MARK ERROR (BIT ERROR) OUTPUT
50	BSRL	DATA OUT FLAG OUTPUT
60	CAL	CALCULATE OUT FLAG OUTPUT
10	CFSA	DEMODULATED COLOR FRAME OUTPUT
11	CFSB	
12	CFSC	
13	CFSD	
20	CKIN	CLOCK INPUT
19	CKO	CLOCK OUTPUT (NEGATIVE-LOGIC)
30	CTLI	CTL SIGNAL INPUT (↓)
28	DATA	DEMODULATED SERIAL DATA OUTPUT
59	DCLK	DEMODULATED CLOCK OUTPUT
6	DCS	DATA LINE OUTPUT ENABLE (NEGATIVE-LOGIC)
3	DER	DEMODULATE DATA ERROR OUTPUT
22	DMSS	ASSIGNED DATA SELECT
9	DO0	DATA OUTPUT (NEGATIVE-LOGIC)
44	DO1	
45	DO2	
46	DO3	
14	FLD	FIELD DATA OUTPUT
29	FRE	CTL DIRECTION SIGNAL INPUT
5	FWRE	DEMODULATE DIRECTION SIGNAL OUTPUT
41	H4O	SPEED RANGE FLAG 4 OUTPUT (NEGATIVE-LOGIC)
42	H8O	SPEED RANGE FLAG 8 OUTPUT (NEGATIVE-LOGIC)
43	H16O	SPEED RANGE FLAG 16 OUTPUT (NEGATIVE-LOGIC)
34	OUDS	ERROR BYPASS ON/OFF SELECT
32	OVF	OVERFLOW FLAG OUTPUT
23	PN	POWER ON SIGNAL INPUT
24	PND	POWER ON SIGNAL OUPUT (NEGATIVE-LOGIC)
18	RDSY	READ SYNC WORD DATA OUTPUT
2	RSTI	CTL TIMER RESET INPUT (↓)
1	S1	SIGNAL FORMAT SELECT S1
36	S2	SIGNAL FORMAT SELECT S2
35	S4	SIGNAL FORMAT SELECT S4
52	SCK1	SYSTEM CLOCK INPUT
21	SCKO	SYSTEM CLOCK OUTPUT
33	SLCT	SELECT CTL INPUT
62	SLTC	SELECT LTC INPUT
55	XPN	SYSTEM RESET SIGNAL INPUT (NEGATIVE-LOGIC)
31	TCIN	LONGITUDINAL TIME AND CONTROL CODE INPUT
51	TCT	INPUT SELECT FLAG OUTPUT
53	TMO	TIME OVER SIGNAL OUTPUT (NEGATIVE-LOGIC)
7	WR	WRITE SIGNAL OUTPUT (NEGATIVE-LOGIC)
47	VDD	POWER LINE (+5V)
61	VDD	
40	GND	GND LINE
54	GND	
64	TEST	TEST MODE SET INPUT (TO BE CONNECTED WITH GND)
63	TPN	
37	TSG1	
38	TSG2	
39	TSG3	

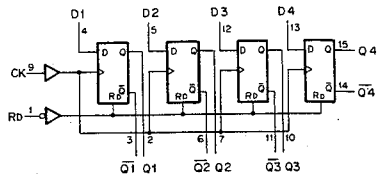
TC40175BP (TOSHIBA)
C·MOS D-TYPE FLIP-FLOP
— TOP VIEW —



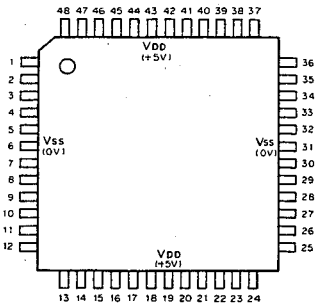


CK	D	RD	Q	$\bar{Q}$
↑	0	1	0	1
↑	1	1	1	0
↓	X	1	Q_0	$\bar{Q}_0$
X	X	0	0	1

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

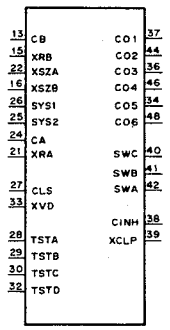


CX7992 (SONY) FLAT PACKAGE
C-MOS CCD CLOCK GENERATOR
— TOP VIEW —

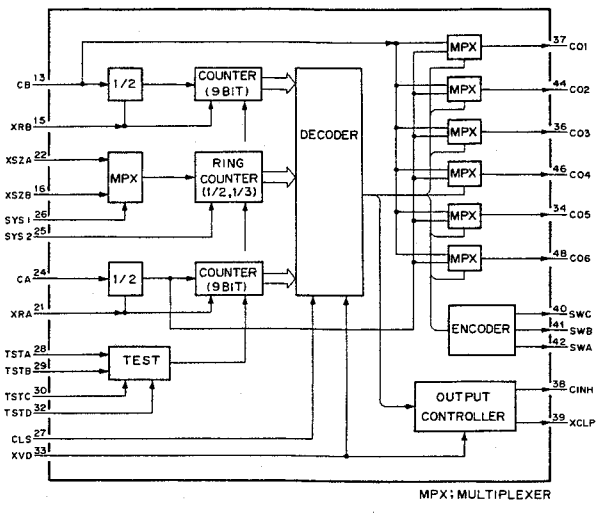


PIN ASSIGNMENT

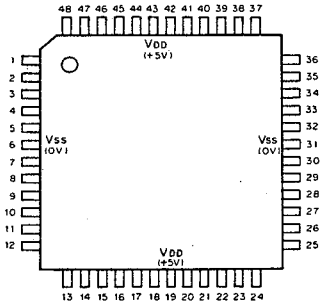
PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL
1			NC	13	○		CB	25	○		SYS2	37		○	CO1
2			NC	14			NC	26	○		SYS1	38		○	CINH
3			NC	15	○		XRB	27	○		CLS	39		○	XCLP
4			NC	16	○		XSZB	28	○		TSTA	40		○	SWC
5			NC	17			NC	29	○		TSTB	41		○	SWB
6			Vss	18			NC	30	○		TSTC	42		○	SWA
7			NC	19			VDD	31			Vss	43			VDD
8			NC	20			NC	32	○		TSTD	44		○	CO2
9			NC	21	○		XRA	33	○		XVD	45			NC
10			NC	22	○		XSZA	34		○	CO5	46		○	CO4
11			NC	23			NC	35			NC	47			NC
12			NC	24	○		CA	36		○	CO3	48		○	CO6



CA ; CLOCK A IN
CB ; CLOCK B IN
CINH ; CHROMA MIX INHIBIT OUT
CLS ; CLOCK FREQ SELECT IN
CO1-CO6; CCD DRIVE CLOCK OUT
SWA ; CCD READ DATA SELECT OUT
SWB ; CCD READ DATA SELECT OUT
SWC ; CCD READ DATA SELECT OUT
SYS 1; SYSTEM SELECT 1 IN
SYS 2; SYSTEM SELECT 2 IN
TSTA ; for the TEST
TSTB; for the TEST
TSTC ; for the TEST
TSTD ; for the TEST
XCLP ; CHROMA CLAMP OUT
XRA ; RESET 2 IN
XRB ; RESET 3 IN
XSZA ; RECORD PROCESS SELECT IN
XSZB ; PLAYBACK PROCESS SELECT IN
XVD ; RESET 1 IN

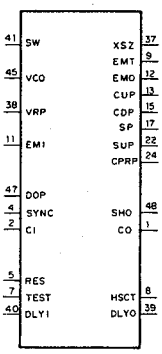


CX7994 (SONY) FLAT PACKAGE
C-MOS VCO DRIVER
— TOP VIEW —

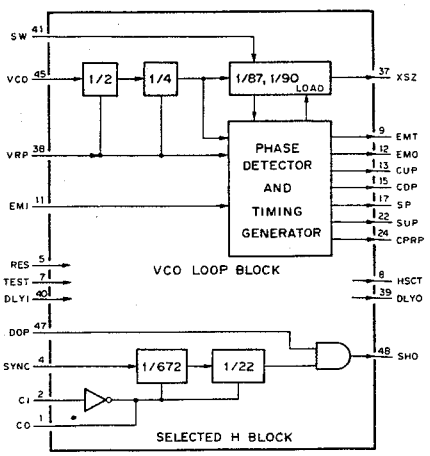


PIN ASSIGNMENT

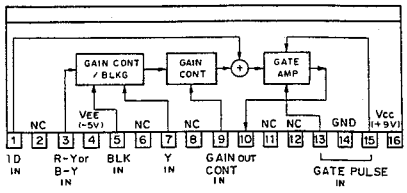
PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL
1		○	CO	13		○	CUP	25			NC	37		○	XSZ
2	○		CI	14			NC	26			NC	38	○		VRP
3			NC	15	○		CDP	27			NC	39		○	DLYO
4	○		SYNC	16			NC	28			NC	40	○		DLYI
5	○		RES	17	○		SP	29			NC	41	○		SW
6			Vss	18			NC	30			NC	42			NC
7	○		TEST	19			VDD	31			Vss	43			VDD
8		○	HSCT	20			NC	32			NC	44			NC
9		○	EMT	21			NC	33			NC	45	○		VCO
10			NC	22	○		CPRP	34			NC	46			NC
11	○		EMI	23			NC	35			NC	47	○		DOP
12		○	EMO	24		○	SUP	36			NC	48		○	SHO



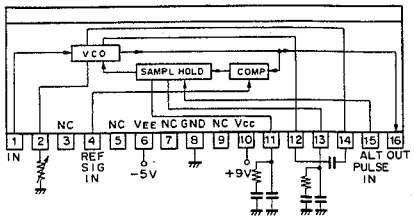
CDP ; CHARGE DOWN PULSE OUT
CI ; CLOCK IN
CO ; CLOCK OUT
CPRP; CHARGE PUMP RESET PULSE OUT
CUP ; CHARGE UP PULSE OUT
DLYI ; for the TEST
DLYO; for the TEST
DOP ; DOC PULSE IN
EMI ; EXT MONO-MULTI IN
EMO ; EXT MONO-MULTI OUT
EMT ; EXT MONO-MULTI TRIGGER OUT
HSCT; for the TEST
RES ; for the TEST
SHO ; SELECTED H OUT
SP ; SAMPLING PULSE OUT
SUP ; SPEED UP PULSE OUT
SW ; 696/720 SELECT SW
SYNC; COMPOSITE SYNC IN
TEST; for the TEST
VCO ; 696fH/720fH VCO PULSE IN
VRP ; VCO RESET PULSE IN
XSZ ; START ZERO OUT



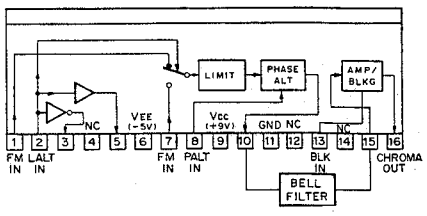
CX850 (SONY)
VIDEO SIGNAL PROCESSOR
— PRINTED SIDE VIEW —



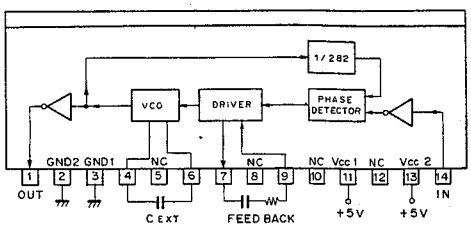
CX852 (SONY)
FREQUENCY MODULATOR
— PRINTED SIDE VIEW —



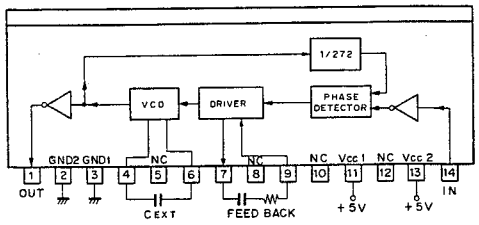
CX853 (SONY)
VIDEO SIGNAL PROCESSOR
— PRINTED SIDE VIEW —



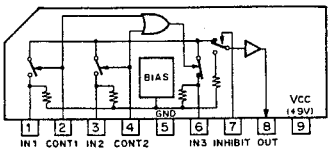
CX854 (SONY)
282-TIME MULTIPLIER
— PRINTED SIDE VIEW —



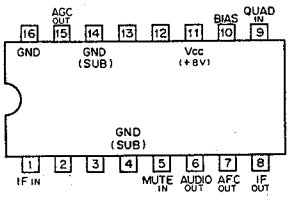
CX855 (SONY)
272-TIME MULTIPLIER
— PRINTED SIDE VIEW —

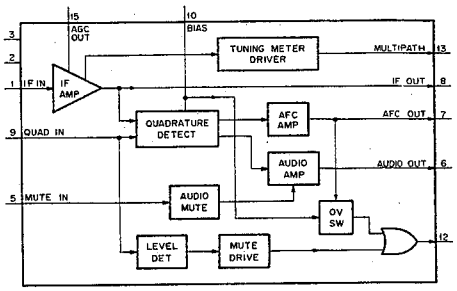


CX894 (SONY)
3 INPUT SWITCH
— SIDE VIEW —

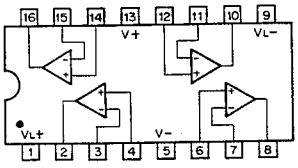


HA12411 (HITACHI)
FM IF AMPLIFIER, QUADRATURE DETECTOR,
AUDIO AMPLIFIER, MUTING, AFC, AGC,
TUNING METER DRIVER
– TOP VIEW –





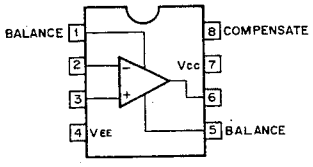
HA1-4905 (HARRIS)
VOLTAGE COMPARATOR
— TOP VIEW —



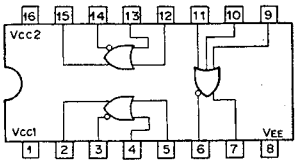
NOTE: V+ AND V- DETERMINE THE ALLOWABLE INPUT SIGNAL RANGE.

VL+ AND VL- DETERMINE THE OUTPUT SWING.

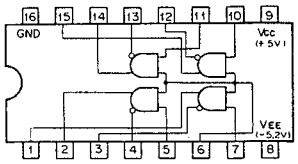
HA3-2525-5 (HARRIS)
HA7-2525 (HARRIS)
OPERATIONAL AMPLIFIER
— TOP VIEW —



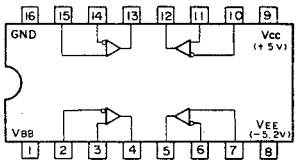
HD10105 (HITACHI)
MC10105L (MOTOROLA)
ECL 2-3-2-INPUT OR/NOR GATE
— TOP VIEW —



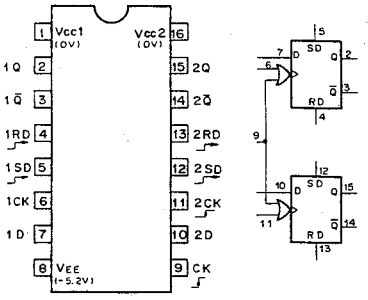
HD10124 (HITACHI)
MC10124L (MOTOROLA)
ECL TTL-TO-ECL TRANSLATOR
— TOP VIEW —



HD10125 (HITACHI)
MC10125L (MOTOROLA)
ECL ECL-TO-TTL TRANSLATOR
— TOP VIEW —



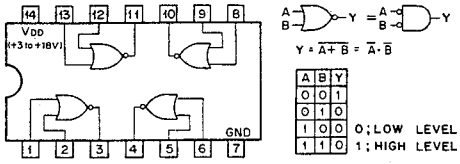
HD10131 (HITACHI)
MC10131L (MOTOROLA)
ECL D-TYPE FLIP FLOP
— TOP VIEW —



INPUTS					OUTPUTS	
SD	RD	CK	D		Qn+1	Qn+1
1	0	X	X		1	0
0	1	X	X		0	1
1	1	X	X		ND	ND
0	0	↓	1		1	0
0	0	↓	0		0	1
0	0	0	X		Qn	Q̄n

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE
ND ; NOT DEFINED

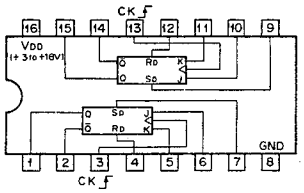
HD14001BP (HITACHI)
MB84001B (FUJITSU)
TC4001BP (TOSHIBA)
μPD4001BC (NEC)
C-MOS 2-INPUT NOR GATE
– TOP VIEW –



A	B	Y
0	0	1
0	1	0
1	0	0
1	1	0

0 ; LOW LEVEL
1 ; HIGH LEVEL

HD14027BP (HITACHI)
TC4027BP (TOSHIBA)
μPD4027C (NEC)
C-MOS J-K MASTER SLAVE FLIP-FLOP WITH DIRECT SET/RESET
— TOP VIEW —



DIRECT R-S FLIP FLOP

So	Rd	Q
0	0	Qn
0	1	0
1	0	1
1	1	0

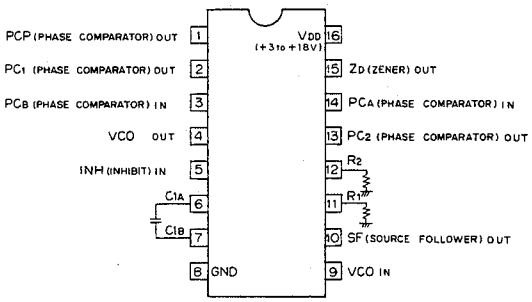
0 ; LOW LEVEL
1 ; HIGH LEVEL

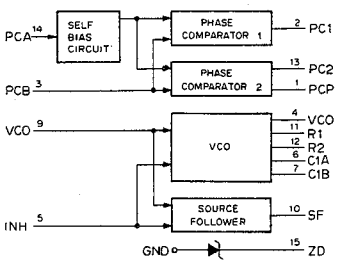
J-K FLIP FLOP

tn	tn+1
J	K	Q
0	0	Qn
0	1	0
1	0	1
1	1	Q̄n

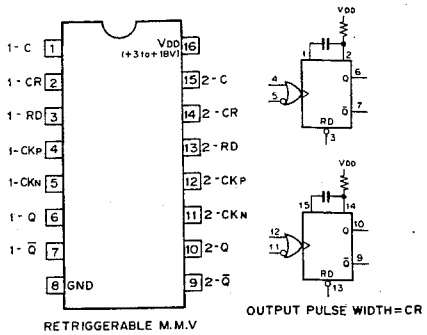
CK ; ↓
tn ; BEFORE CLOCK
tn+1 ; AFTER CLOCK

HD14046BP (HITACHI)
MC14046BCP (MOTOROLA)
C-MOS PHASE LOCKED LOOP
— TOP VIEW —

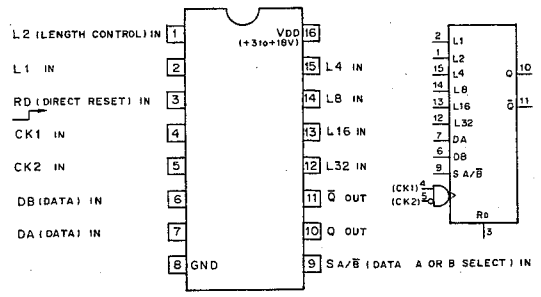




HD14538BP (HITACHI)
MC14538BCP (MOTOROLA)
C-MOS DUAL RETRIGGERABLE/NON-RETRIGGERABLE MONOSTABLE MULTIVIBRATOR
— TOP VIEW —



HD145578P (HITACHI)
C-MOS 1-TO-64-BIT VARIABLE LENGTH SHIFT REGISTER
— TOP VIEW —



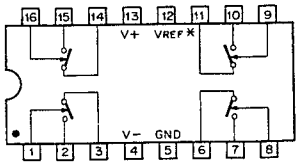
LENGTH SELECT TRUTH TABLE

L32	L16	L8	L4	L2	L1	REGISTER LENGTH
0	0	0	0	0	0	1-BIT
0	0	0	0	0	1	2-BIT
0	0	0	0	1	0	3-BIT
0	0	0	0	1	1	4-BIT
0	0	0	1	0	0	5-BIT
⋮	⋮	⋮	⋮	⋮	⋮	⋮
1	1	1	1	0	0	61-BIT
1	1	1	1	0	1	62-BIT
1	1	1	1	1	0	63-BIT
1	1	1	1	1	1	64-BIT

INPUTS				OUTPUT
RD	S A/B	CK1	CK2	Q
0	0	↓	0	DB
0	1	↓	0	DA
0	0	1	↑	DB
0	1	1	↑	DA
1	X	X	X	0

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

HI1-201 (HARRIS)
HI1-201HS (HARRIS)
C-MOS ANALOG SWITCH
— TOP VIEW —



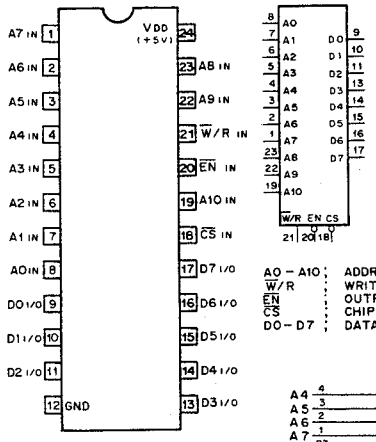
CONT IN	SW
0	○ ○
1	○ ○

0 ; LOW LEVEL
1 ; HIGH LEVEL

* NOTE

INTERFACE	VREF CONNECTION
TTL	OPEN
C-MOS	VDD ≦ 5.5V ; OPEN
	VDD > 5.5V ; TO VDD

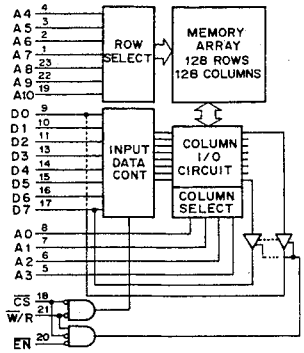
HM6116LP-2 (HITACHI) (ACCESS TIME = 120 nS)
MSM5128-12RS (OKI) (ACCESS TIME = 120 nS)
C-MOS 16384(2048x8)-BIT HIGH SPEED STATIC RAM
— TOP VIEW —



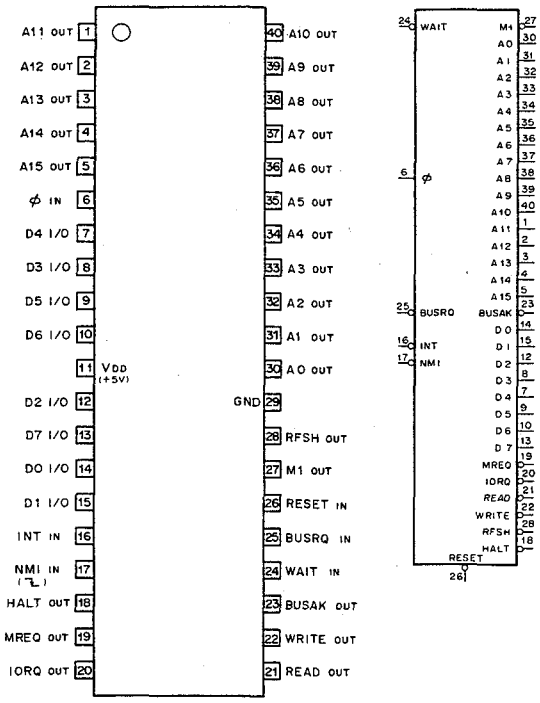
INPUTS			FUNCTION
CS	W/R	EN	
0	0	X	WRITE
0	1	0	READ
0	1	1	DISABLE (OUTPUT=HI-Z)
1	X	X	DISABLE (OUTPUT=HI-Z)

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE
HI-Z ; HIGH IMPEDANCE

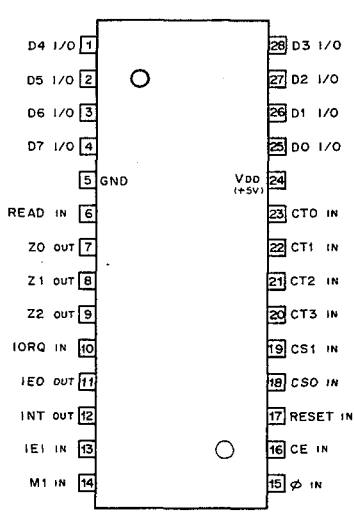
A0 – A10 ; ADDRESS INPUTS
W/R ; WRITE / READ ENABLE
EN ; OUTPUT ENABLE
CS ; CHIP SELECT
D0 – D7 ; DATA INPUTS / OUTPUTS

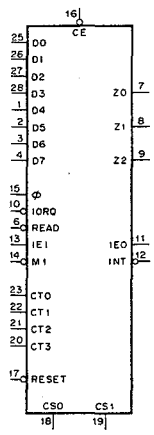


LH0080A (SHARP)
N-MOS 8-BIT MICROPROCESSOR
— TOP VIEW —



LH0082A (SHARP)
N-MOS COUNTER TIMER CIRCUIT
— TOP VIEW —



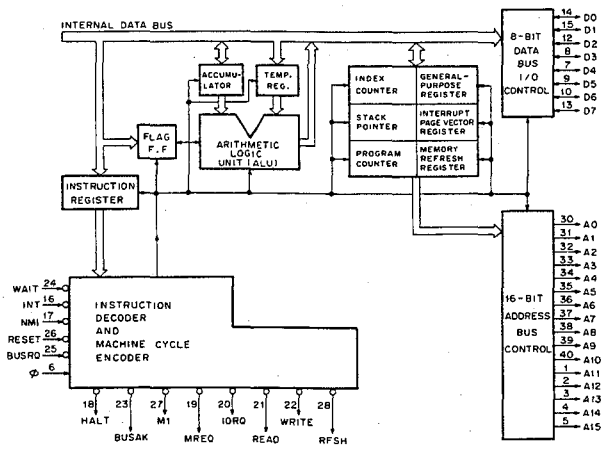


φ ; SYSTEM CLOCK
CE ; CHIP ENABLE
CSO, CS1 ; CHANNEL SELECT
CTO-CT3 ; EXTERNAL CLOCK/TIMER TRIGGER
DO-D7 ; 3-STATE DATA INPUT/OUTPUT
IEI ; INTERRUPT ENABLE INPUT
IEO ; INTERRUPT ENABLE OUTPUT
INT ; INTERRUPT REQUEST (OPEN DRAIN)
IORQ ; I/O REQUEST
M1 ; MACHINE CYCLE 1
READ ; READ CYCLE STATUS
ZO-Z2 ; ZERO COUNT/TIME OUT

CHANNEL SELECT FUNCTION

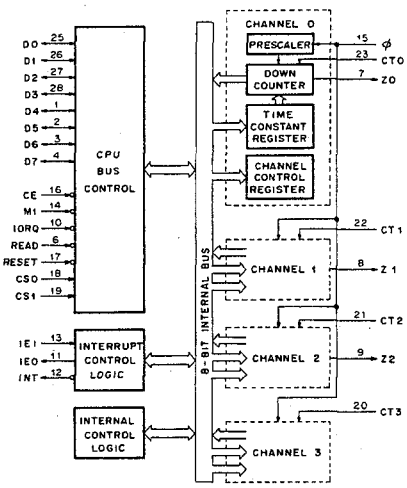
CS1	CSO	SELECTED CHANNEL
0	0	0
0	1	1
1	0	2
1	1	3

0; LOW LEVEL
1; HIGH LEVEL

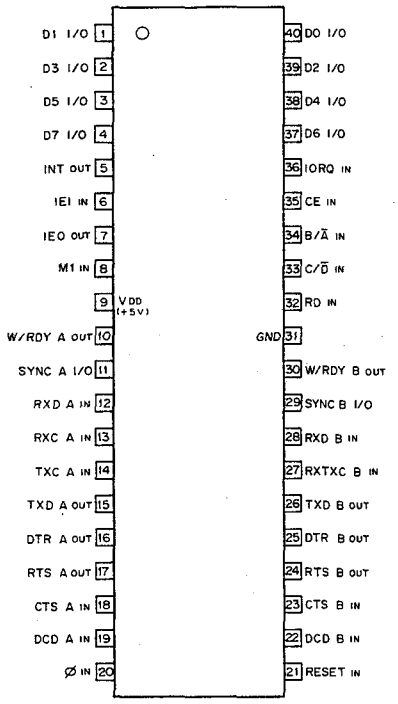


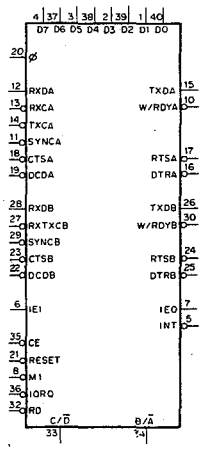
TEMP. REG. ; TEMPORARY REGISTER

φ ; CLOCK
A0-A15 ; 3-STATE ADDRESS OUTPUT
BUSAK ; BUS ACKNOWLEDGE
BUSRQ ; BUS REQUEST
D0-D7 ; 3-STATE DATA INPUT/OUTPUT
HALT ; HALT STATE
INT ; INTERRUPT REQUEST
IORQ ; 3-STATE I/O REQUEST
M1 ; MACHINE CYCLE 1
MREQ ; 3-STATE MEMORY REQUEST
NMI ; NON-MASKABLE INTERRUPT (DOWN EDGE TRIGGER)
READ ; 3-STATE MEMORY READ
RFSH ; REFRESH
WRITE ; 3-STATE MEMORY WRITE



LH0084A (SHARP)
N-MOS 2-CHANNEL SERIAL INPUT/OUTPUT FOR MICROCOMPUTER SYSTEM
— TOP VIEW —

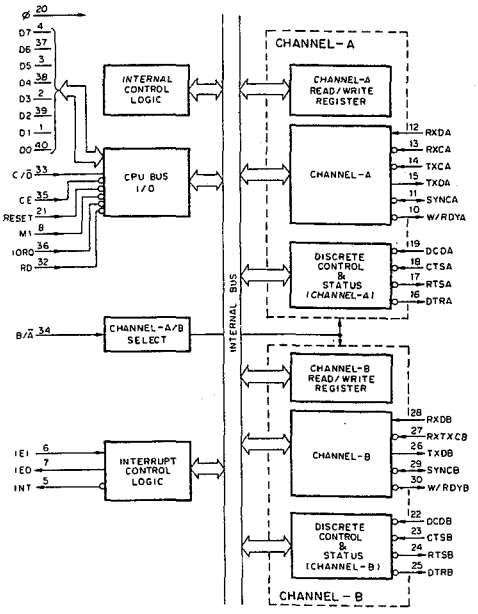




CHANNEL SELECT FUNCTION TABLE

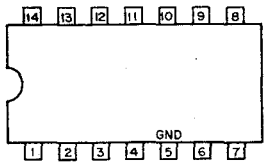
C/D̄	B/Ā	FUNCTION
0	0	CH-A DATA
0	1	CH-B DATA
1	0	CH-A CONT. WORD
1	1	CH-B CONT. WORD

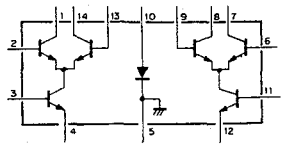
0; LOW LEVEL
1; HIGH LEVEL



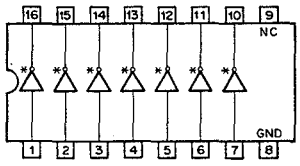
Ø ; SYSTEM CLOCK IN
D7-D0 ; DATA I/O
C/D̄ ; CONTROL/DATA SELECT IN
CE ; CHIP ENABLE IN
M1 ; MACHINE CYCLE 1 IN
IORQ ; I/O REQUEST IN
RD ; READ IN
B/Ā ; CHANNEL B/A SELECT IN
IEI ; INTERRUPT ENABLE IN
IEO ; INTERRUPT ENABLE OUT
INT ; INTERRUPT OUT
RXD ; RECEIVE DATA IN
RXC ; RECEIVE CLOCK IN
TXC ; TRANSMIT CLOCK IN
TXD ; TRANSMIT DATA OUT
SYNC ; EXTERNAL CHARACTER SYNCHRONIZATION I/O
W/RDY ; WAIT/READY OUT
DCD ; DATA CARRIER DETECT IN
CTS ; CLEAR TO SEND IN
RTS ; REQUEST TO SEND OUT
DTR ; DATA TERMINAL READY OUT

M5109P (MITSUBISHI)
DIFFERENTIAL AMPLIFIER
— TOP VIEW —

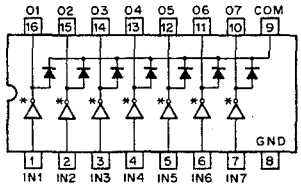




M54517P (MITSUBISHI)
INVERTER WITH OPEN-COLLECTOR
(DARLINGTON-CONNECTED TRANSISTOR ARRAY)
— TOP VIEW —

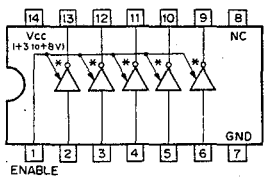


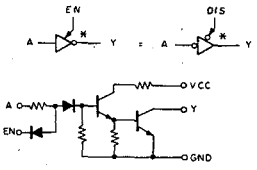
M54523P (MITSUBISHI)
BIPOLAR TRANSISTOR ARRAY WITH OPEN COLLECTOR
— TOP VIEW —



COM : COMMON

M54529AP (MITSUBISHI)
TRANSISTOR ARRAY
— TOP VIEW —

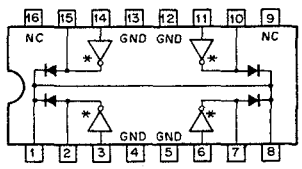


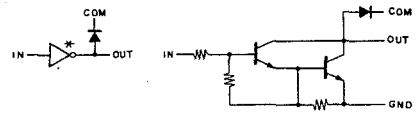


A	EN	Y
0	1	1
1	1	0
X	0	1

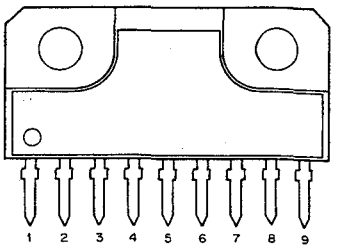
0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE
*; OPEN COLLECTOR

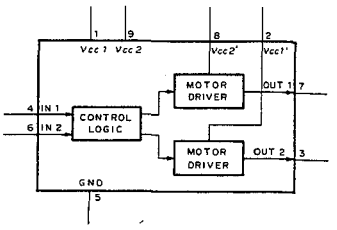
M54532P (MITSUBISHI)
DARLINGTON TRANSISTOR ARRAY WITH CLAMP DIODE
— TOP VIEW —





M54543L (MITSUBISHI)
BI-DIRECTIONAL MOTOR DRIVER
— SIDE VIEW —

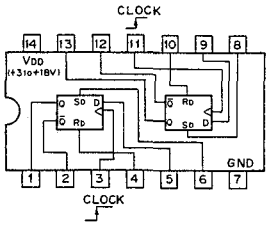




IN		OUT		MODE
1	2	1	2	
0	0	Z	Z	NO OPERATION
1	0	1	0	ROTATION
0	1	0	1	REVERSE ROTATION
1	1	0	0	BRAKE

0 : LOW LEVEL
1 : HIGH LEVEL
Z : HIGH IMPEDANCE

MB84013B (FUJITSU)
C-MOS D-TYPE FLIP-FLOP WITH DIRECT SET/RESET
— TOP VIEW —



DIRECT R-S FLIP FLOP

So	Rb	Q	$\overline{Q}$
0	0	On	$\overline{On}$
0	1	0	1
1	0	1	0
1	1	1	1

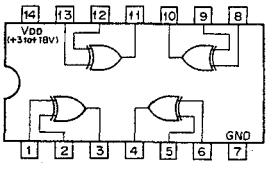
0 : LOW LEVEL
1 : HIGH LEVEL

D-TYPE FLIP FLOP

CKn	CKn+1
D	Q
0	0
1	1

CLOCK CK: ↓
CKn : BEFORE CLOCK
CKn+1 : AFTER CLOCK

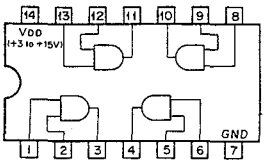
MB84070B (FUJITSU)
MC14070BCP (MOTOROLA)
C-MOS EXCLUSIVE OR GATE
— TOP VIEW —

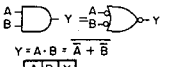


A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

0 : LOW LEVEL
1 : HIGH LEVEL

MB84081B (FUJITSU)
TC4081BP (TOSHIBA)
uPD4081BC (NEC)
C-MOS 2-INPUT AND GATE
— TOP VIEW —

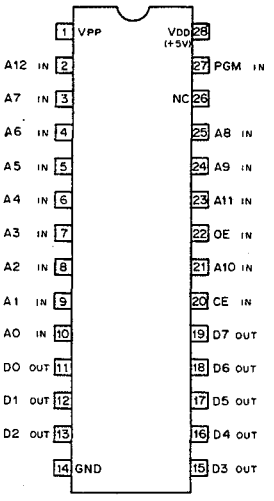


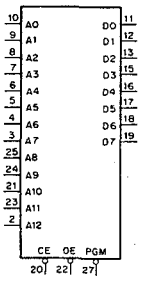


A	B	Y
0	0	0
0	1	0
1	0	0
1	1	1

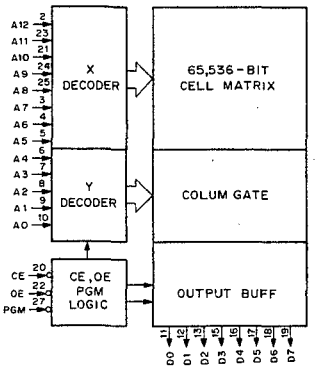
0 : LOW LEVEL
1 : HIGH LEVEL

MBM2764-20Z (FUJITSU) (ACCESS TIME = 200 nS)
MSM2764AS (OKI) (ACCESS TIME = 250 nS)
N-MOS 64K (8K-8) ERASABLE PROM WITH 3-STATE OUTPUTS
— TOP VIEW —





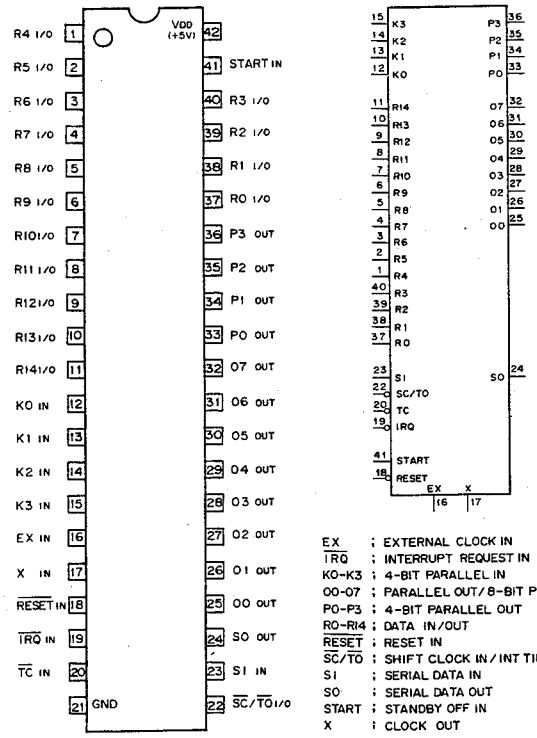
A0-A12 ; ADDRESS
CE ; CHIP ENABLE
D0-D7 ; DATA OUTPUT
OE ; OUTPUT ENABLE
PGM ; PROGRAM ENABLE
VPP ; PROGRAM VOLTAGE



An	CE	OE	PGM	VPP	Dn	FUNCTION
An	0	0	1	+5V	DENTERED	READ
An	0	1	1	+5V	HI-Z	OUTPUT DISABLE
An	0	0	0	+5V	HI-Z	OUTPUT DISABLE
X	1	X	X	+5V	HI-Z	STANDBY
An	0	X	⎍	+21V	DIN	PGM
An	0	0	1	+21V	DENTERED	PGM VERIFY
X	1	X	X	+21V	HI-Z	PGM INH

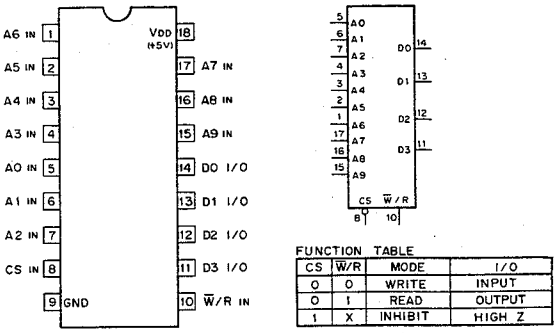
0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE
HI-Z ; HIGH INPEDANCE

MB88501-PSH (FUJITSU)
C-MOS 4-BIT ONE-CHIP MICROCOMPUTER
— TOP VIEW —



EX ; EXTERNAL CLOCK IN
$\overline{IRQ}$; INTERRUPT REQUEST IN
KO-K3 ; 4-BIT PARALLEL IN
00-07 ; PARALLEL OUT/8-BIT PLA OUT
PO-P3 ; 4-BIT PARALLEL OUT
RO-R14 ; DATA IN/OUT
$\overline{RESET}$; RESET IN
$\overline{SC/TO}$; SHIFT CLOCK IN/INT TIMING OUT
SI ; SERIAL DATA IN
SO ; SERIAL DATA OUT
START ; STANDBY OFF IN
X ; CLOCK OUT

MBM2149L-55 (FUJITSU) N-MOS
4096-BIT (1024x4) STATIC RAM WITH 3-STATE OUTPUT
— TOP VIEW —

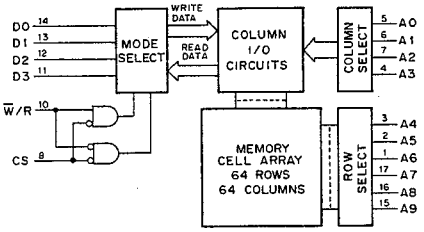


FUNCTION TABLE

CS	W/R	MODE	I/O
0	0	WRITE	INPUT
0	1	READ	OUTPUT
1	X	INHIBIT	HIGH Z

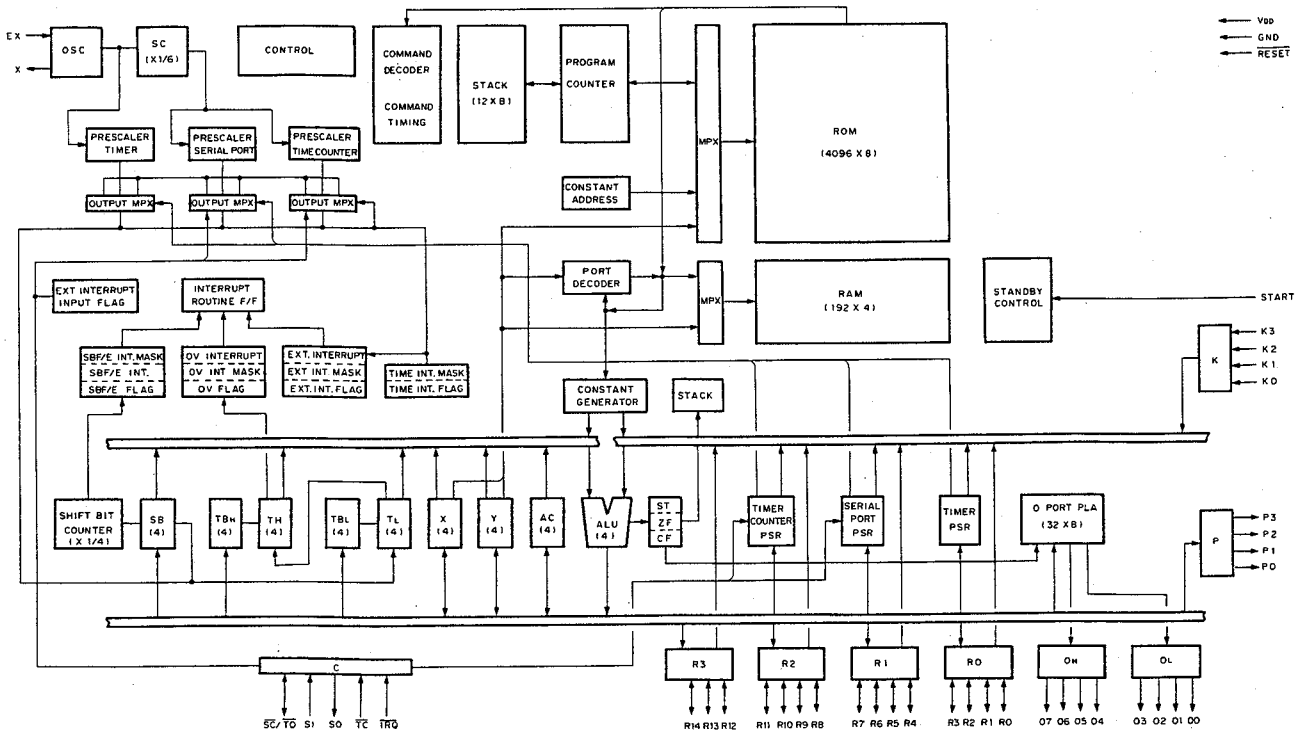
AO — A9 ; ADDRESS INPUTS
CS ; CHIP SELECT INPUT
DO — D3 ; DATA INPUT/OUTPUT (3-STATE)
W/R ; WRITE/READ ENABLE INPUT

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE
HIGH Z ; HIGH IMPEDANCE

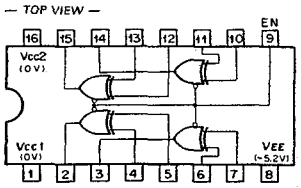


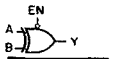
TYPE	-45	-55	-70	L-55	L-70	HP-45
ADDRESS ACCESS TIME (MAX)	45nS	55nS	70nS	55nS	70nS	45nS
CHIP SELECT ACCESS TIME (MAX)	20nS	25nS	30nS	25nS	30nS	45nS
Icc (MAX)	180mA	180mA	180mA	125mA	125mA	80mA

MB88501-PSH



MC10113L (MOTOROLA)
ECL EXCLUSIVE OR GATE
— TOP VIEW —

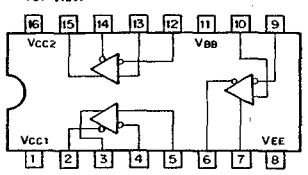




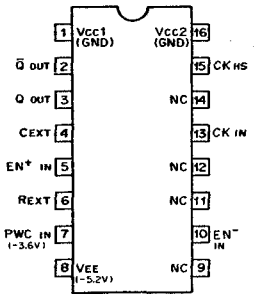
A	B	EN	Y
0	0	0	0
0	1	0	1
1	0	0	1
1	1	0	0
X	X	1	0

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

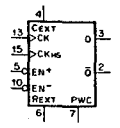
MC10116L (MOTOROLA)
ECL DIFFERENTIAL OR/NOR LINE RECEIVER
— TOP VIEW —



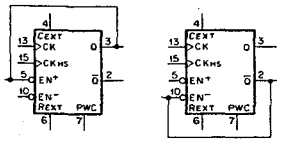
MC10198L (MOTOROLA)
RETRIGGERABLE MONOSTABLE MULTIVIBRATOR
— TOP VIEW —



RETRIGGERABLE MMV



NON-RETRIGGERABLE MMV



CK : CLOCK TRIGGER INPUT
CKHS : HIGH-SPEED CLOCK TRIGGER INPUT
EN+ : TRIGGER POSITIVE ENABLE
EN- : TRIGGER NEGATIVE ENABLE
PWC : EXTERNAL PULSE WIDTH CONTROL

FUNCTION TABLE

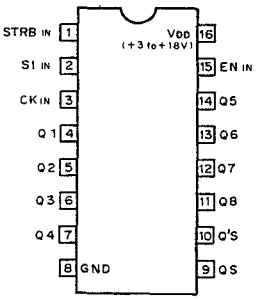
EN+	EN-	TRIG. SLOPE
0	0	↓
0	1	↓
1	0	↑
1	1	DISABLE

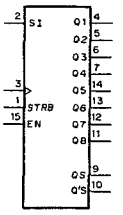
0 ; LOW LEVEL
1 ; HIGH LEVEL

OUTPUT PULSE WIDTH : PWQ
PWQ = 1.19 · CEXT (REXT + 284)
WHERE
PWQ = SEC
CEXT = FARADS
REXT = OHMS
VEE = -5.2V
PWC = -3.6V

NOTE ; · SELECT REXT RANGING FROM ZERO TO 16K OHMS.
SELECT CEXT GREATER THAN 20PF.

MC14094BCP (MOTOROLA)
MSM4094RS (OKI)
TC4094BP (TOSHIBA)
C-MOS 8-STAGE SHIFT-AND-STORE BUS REGISTER
— TOP VIEW —





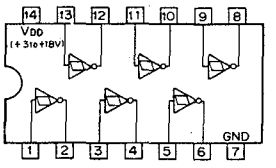
SI ; SERIAL DATA INPUT
CK ; CLOCK INPUT
STRB ; STROBE INPUT
EN ; OUTPUT ENABLE INPUT
Q1~Q8 ; PARALLEL DATA OUTPUTS
QS, Q'S ; SERIAL DATA OUTPUTS

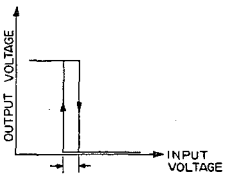
INPUTS				PARALLEL OUT		SERIAL OUT	
CK	EN	STRB	SI	Q1	Qn	QS	Q'S
↑	0	X	X	HI-Z	HI-Z	Q7	NC
↓	0	X	X	HI-Z	HI-Z	NC	Q7
↑	1	0	X	NC	NC	Q7	NC
↑	1	1	0	0	Qn-1	Q7	NC
↑	1	1	1	1	Qn-1	Q7	NC
↓	1	1	1	NC	NC	NC	Q7

1 ; HIGH
0 ; LOW
X ; DON'T CARE

HI-Z ; HIGH IMPEDANCE
NC ; NO CHANGE

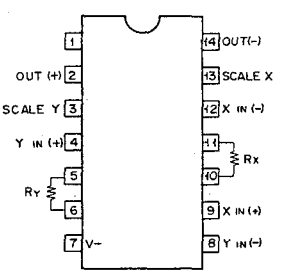
MC14584BCP (MOTOROLA)
uPD4584BC (NEC)
C-MOS SCHMITT TRIGGER INVERTER
— TOP VIEW —

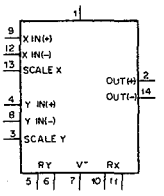




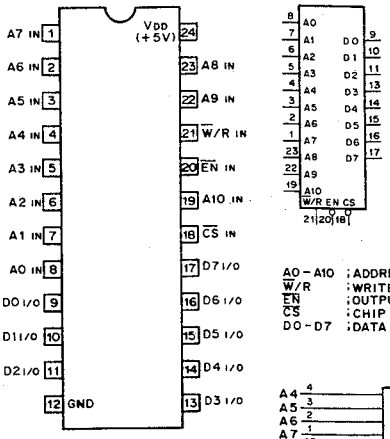
0.4V (VDD=5V)
0.45V(VDD=10V)
0.90V(VDD=15V)

MC1595L (MOTOROLA)
LINEAR MULTIPLIER
— TOP VIEW —





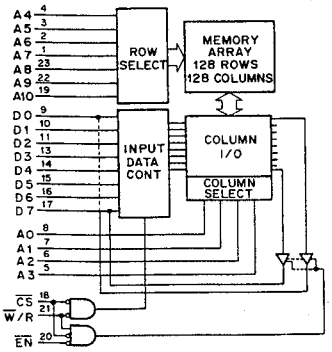
MSM2128-15RS (OKI) (ACCESS TIME = 150 nS)
N-MOS 16384(2048x8)-BIT STATIC RAM
— TOP VIEW —



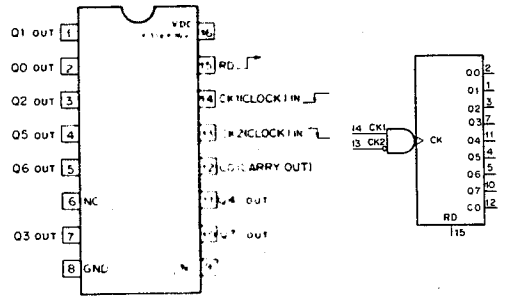
A0 – A10 ; ADDRESS INPUTS
W/R ; WRITE / READ ENABLE
EN ; OUTPUT ENABLE
CS ; CHIP SELECT
DO – D7 ; DATA INPUTS / OUTPUTS

INPUTS			FUNCTION	POWER
CS	W/R	EN		
0	0	X	WRITE	ACTIVE
0	1	0	READ	
0	1	1	DISABLE	
1	X	X	OUTPUT : HI-Z	STANDBY

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE
HI-Z ; HIGH IMPEDANCE



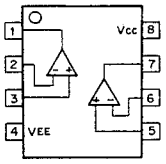
MSM4022RS (OKI)
TC4022BP (TOSHIBA)
C-MOS OCTAL COUNTER DIVIDER
— TOP VIEW —



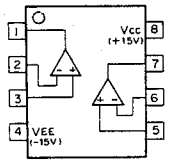
COUNT	INPUTS		OUTPUTS									CO
	RD		Q7	Q6	Q5	Q4	Q3	Q2	Q1	Q0		
0	1	#	0	0	0	0	0	0	0	1		1
0	0	#	0	0	0	0	0	0	1	0		1
1	0	#	0	0	0	0	0	1	0	1		1
2	0	#	0	0	0	0	0	1	1	0		1
3	0	#	0	0	0	0	1	0	0	0		1
4	0	#	0	0	0	1	0	0	0	0		0
5	0	#	0	0	1	0	0	0	0	0		0
6	0	#	0	1	0	0	0	0	0	0		0
7	0	#	1	0	0	0	0	0	0	0		0
NO COUNT	0	1	NO CHANGE									
	0	0										

1 : HIGH
0 : LOW
X : DON'T CARE

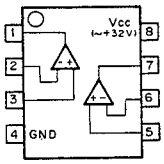
NJM2043D-D (JRC)
OPERATIONAL AMPLIFIER
— TOP VIEW —



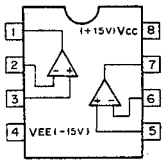
NJM2903D (JRC)
OPERATIONAL AMPLIFIER
— TOP VIEW —



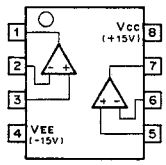
NJM4556D (JRC)
OPERATIONAL AMPLIFIER
— TOP VIEW —



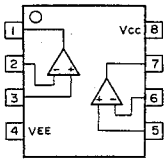
NJM4558D (JRC)
NJM4558D-D (JRC)
NJM4558DFA (JRC)
μPC4558C (NEC)
OPERATIONAL AMPLIFIER
– TOP VIEW –



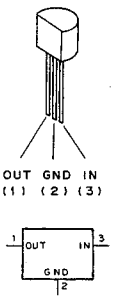
NJM4560D (JRC)
NJM4560D-D (JRC)
OPERATIONAL AMPLIFIER
– TOP VIEW –



NJM4562D (JRC)
OPERATIONAL AMPLIFIER
— TOP VIEW —

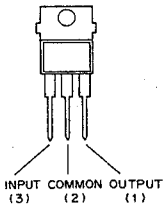


NJM78L ? ?A (JRC)
VOLTAGE REGULATOR

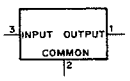


2V	NJM78L02A
5V	NJM78L05A
6V	NJM78L06A
8V	NJM78L08A
9V	NJM78L09A
12V	NJM78L12A
15V	NJM78L15A

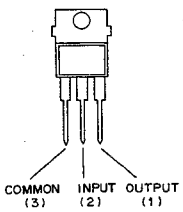
NJM78M ? ?A (JRC)
VOLTAGE REGULATOR
— FRONT VIEW —



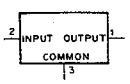
5V	NJM78M05A
6V	NJM78M06A
8V	NJM78M08A
9V	NJM78M09A
12V	NJM78M12A
15V	NJM78M15A
18V	NJM78M18A
20V	NJM78M20A
24V	NJM78M24A



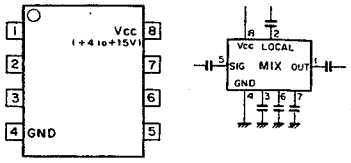
NJM79M ? ?A (JRC)
NEGATIVE VOLTAGE REGULATOR (500mA)
— FRONT VIEW —



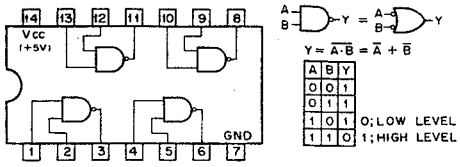
−5V	NJM79M05A
−6V	NJM79M06A
−8V	NJM79M08A
−9V	NJM79M09A
−12V	NJM79M12A
−15V	NJM79M15A
−18V	NJM79M18A
−24V	NJM79M24A



SN16913P (TI)
BALANCED MIXER
— TOP VIEW —



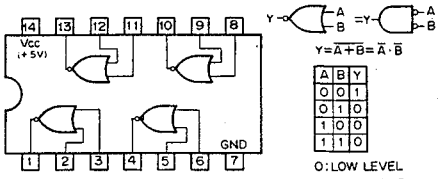
SN7400N (TI)
SN74ALS00N (TI)
SN74LS00N (TI)
SN74S00N (TI)
TTL 2-INPUT POSITIVE-NAND GATE
— TOP VIEW —



A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

0;LOW LEVEL
1;HIGH LEVEL

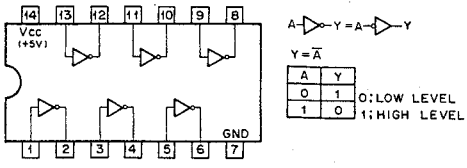
SN74LS02N (TI)
TTL 2-INPUT POSITIVE-NOR GATE
— TOP VIEW —



A	B	Y
0	0	1
0	1	0
1	0	0
1	1	0

0:LOW LEVEL
1;HIGH LEVEL

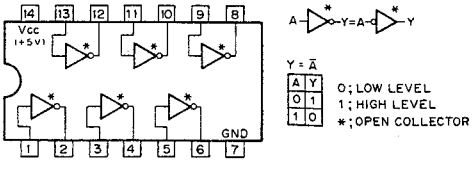
SN7404N (TI)
SN74LS04N (TI)
SN74S04N (TI)
TTL INVERTER
— TOP VIEW —



A	Y
0	1
1	0

0;LOW LEVEL
1;HIGH LEVEL

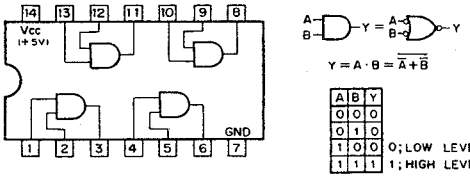
SN7406N (TI)
TTL INVERTER BUFFER/DRIVER WITH OPEN-COLLECTOR
— TOP VIEW —



A	Y
0	1
1	0

0;LOW LEVEL
1;HIGH LEVEL
*;OPEN COLLECTOR

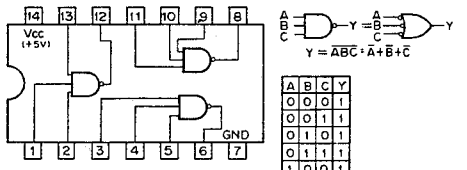
SN7408N (TI)
SN74ALS08N (TI)
SN74LS08N (TI)
TTL 2-INPUT POSITIVE-AND GATE
— TOP VIEW —



A	B	Y
0	0	0
0	1	0
1	0	0
1	1	1

0;LOW LEVEL
1;HIGH LEVEL

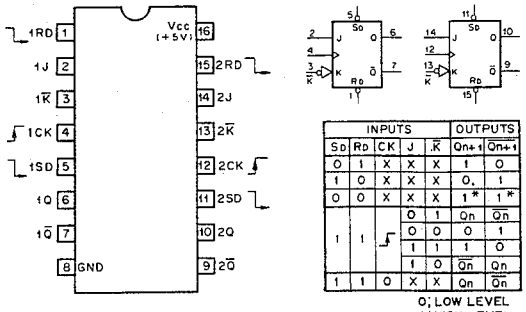
SN74LS10N (TI)
TTL 3-INPUT POSITIVE NAND GATE
— TOP VIEW —



A	B	C	Y
0	0	0	1
0	0	1	1
0	1	0	1
0	1	1	1
1	0	0	1
1	0	1	1
1	1	0	1
1	1	1	0

0 : LOW LEVEL
1 : HIGH LEVEL

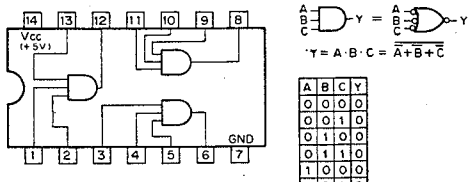
SN74LS109AN (TI)
TTL J-K FLIP-FLOP WITH DIRECT SET/RESET
— TOP VIEW —



INPUTS					OUTPUTS	
SD	RD	CK	J	K̄	Qn+1	Q̄n+1
0	1	X	X	X	1	0
1	0	X	X	X	0	1
0	0	X	X	X	1*	1*
1	1	↓	0	1	Qn	Q̄n
			0	0	0	1
			1	1	1	0
			1	0	Q̄n	Qn
1	1	0	X	X	Qn	Q̄n

0;LOW LEVEL
1;HIGH LEVEL
X;DON'T CARE
*;NONSTABLE

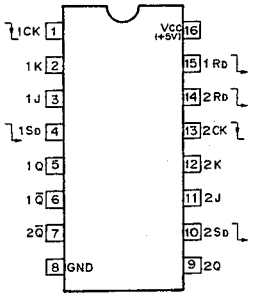
SN74LS11N (TI)
TTL 3-INPUT POSITIVE-AND GATE
— TOP VIEW —

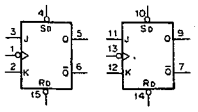


A	B	C	Y
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	0
1	0	0	0
1	0	1	0
1	1	0	0
1	1	1	1

0;LOW LEVEL
1;HIGH LEVEL

SN74LS112AN (TI)
TTL J-K FLIP-FLOP WITH DIRECT SET/RESET
— TOP VIEW —

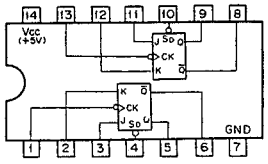




INPUTS					OUTPUTS	
SD	RD	CK	J	K	Qn+1	Q̄n+1
0	1	X	X	X	1	0
1	0	X	X	X	0	1
0	0	X	X	X	1*	1*
1	1	↓	0	0	Qn	Q̄n
			0	1	0	1
			1	0	1	0
			1	1	Q̄n	Qn
1	1	1	X	X	Qn	Q̄n

0; LOW LEVEL X; DON'T CARE
1; HIGH LEVEL *; NONSTABLE

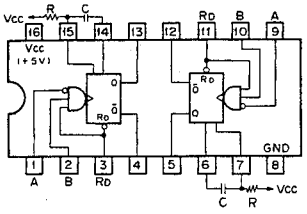
SN74LS113AN (TI)
TTL J-K FLIP FLOP WITH DIRECT SET
— TOP VIEW —



INPUTS				OUTPUTS	
SD	CK	J	K	Qn+1	Q̄n+1
0	X	X	X	1	0
1	↓	0	0	Qn	Q̄n
1	↓	0	1	0	1
1	↓	1	0	1	0
1	↓	1	1	Q̄n	Qn
1	1	X	X	Qn	Q̄n

0; LOW LEVEL X; DON'T CARE
1; HIGH LEVEL

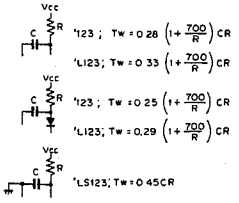
SN74LS123N (TI)
TTL RETRIGGERABLE MONOSTABLE MULTIVIBRATOR WITH DIRECT RESET
— TOP VIEW —



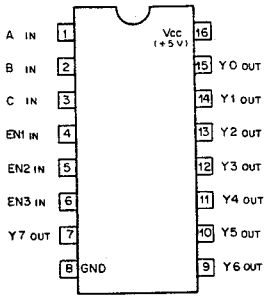
INPUTS			OUTPUTS	
RD	A	B	Q	Q̄
0	X	X	0	1
X	1	X	0	1
X	X	0	0	1
1	0	↑	⊓	⊔
1	↓	1	⊓	⊔
↑	0	1	⊓	⊔

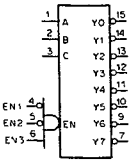
0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

OUTPUT PULSE WIDTH



SN74LS138N (TI)
TTL 3-TO-8-LINE DECODER/DEMULTIPLEXER
— TOP VIEW —



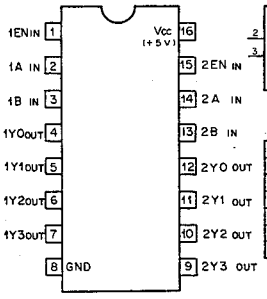


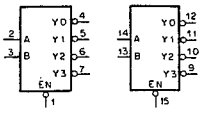
INPUTS				OUTPUTS							
EN	C	B	A	Y7	Y6	Y5	Y4	Y3	Y2	Y1	Y0
0	X	X	X	1	1	1	1	1	1	1	1
1	0	0	0	1	1	1	1	1	1	1	0
1	0	0	1	1	1	1	1	1	1	0	1
1	0	1	0	1	1	1	1	1	0	1	1
1	0	1	1	1	1	1	1	0	1	1	1
1	1	0	0	1	1	1	0	1	1	1	1
1	1	0	1	1	1	0	1	1	1	1	1
1	1	1	0	1	0	1	1	1	1	1	1
1	1	1	1	0	1	1	1	1	1	1	1

$EN = \overline{EN1} \cdot \overline{EN2} \cdot EN3$

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

SN74LS139N (TI)
TTL 2-TO-4-LINE DECODER/DEMULTIPLXER
— TOP VIEW —

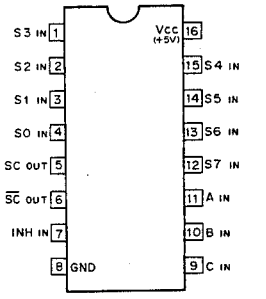


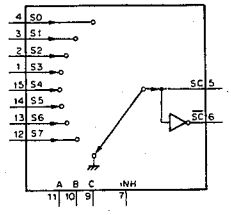


INPUTS			OUTPUTS			
EN	B	A	Y3	Y2	Y1	Y0
0	0	0	1	1	1	0
0	0	1	1	1	0	1
0	1	0	1	0	1	1
0	1	1	0	1	1	1
1	X	X	1	1	1	1

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

SN74LS151N (TI)
TTL 8-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER
— TOP VIEW —

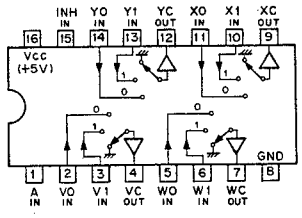


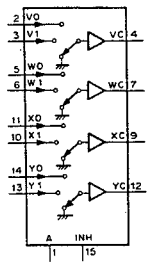


CONTROL INPUTS				ON CHANNEL
INH	C	B	A	
0	0	0	0	0
0	0	0	1	1
0	0	1	0	2
0	0	1	1	3
0	1	0	0	4
0	1	0	1	5
0	1	1	0	6
0	1	1	1	7
1	X	X	X	GND

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

SN74LS157N (TI)
TTL 2-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER
— TOP VIEW —

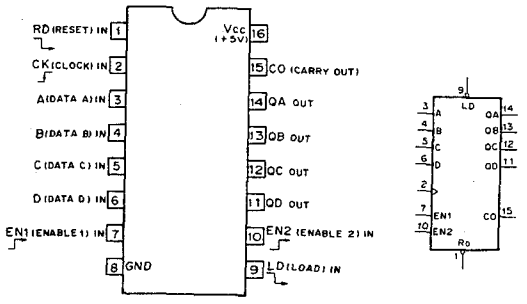




CONT. IN		ON CHANNEL
INH	A	
0	0	0
0	1	1
1	X	GND

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

SN74LS161AN (TI)
TTL PRESETTABLE SYNCHRONOUS 4-BIT BINARY COUNTER
— TOP VIEW —



MODE SELECTION

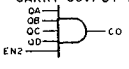
CONTROL INPUTS				MODE
Ro	LD	EN1	EN2	
0	X	X	X	RESET (ASYNCHRONOUS)
1	0	X	X	PRESET (SYNCHRONOUS)
1	1	0	X	NO COUNT
1	1	X	0	NO COUNT
1	1	1	1	COUNT

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

COUNT SEQUENCE

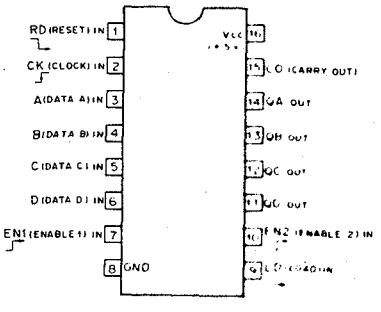
COUNT	OUTPUTS			
	QD	QC	QB	QA
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
10	1	0	1	0
11	1	0	1	1
12	1	1	0	0
13	1	1	0	1
14	1	1	1	0
15	1	1	1	1

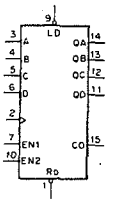
CARRY OUTPUT "CO"



CO IS HIGH WHEN EN2 INPUT IS HIGH AND COUNT IS "15"

SN74LS163AN (TI)
SN74S163N (TI)
TTL PRESETTABLE SYNCHRONOUS 4 BIT BINARY COUNTER
— TOP VIEW —





MODE SELECTION

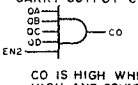
CONTROL INPUTS				MODE
RD	LD	EN1	EN2	
0	X	X	X	RESET (ASYNCHRONOUS)
1	0	X	X	PRESET (SYNCHRONOUS)
1	1	0	X	NO COUNT
1	1	X	0	NO COUNT
1	1	1	1	COUNT

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

COUNT SEQUENCE

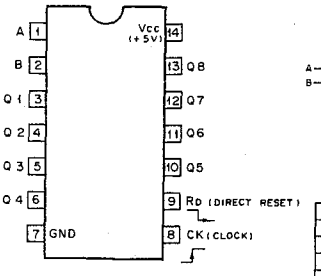
COUNT	OUTPUTS			
	QD	QC	QB	QA
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
10	1	0	1	0
11	1	0	1	1
12	1	1	0	0
13	1	1	0	1
14	1	1	1	0
15	1	1	1	1

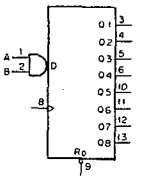
CARRY OUTPUT "CO"



CO IS HIGH WHEN EN2 INPUT IS HIGH AND COUNT IS "15".

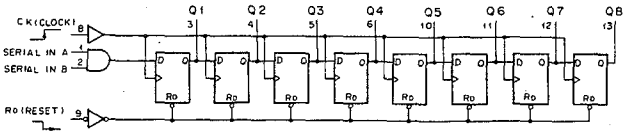
SN74LS164N (TI)
TTL 8-BIT PARALLEL-OUT SERIAL SHIFT REGISTER
— TOP VIEW —



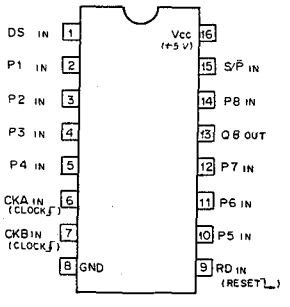


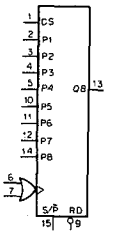
INPUTS				OUTPUTS			
Ro	CK	A	B	Q1	Q2	···	Q8
0	X	X	X	0	0	0	0
1	0	X	X	Q10	Q20	·	Q80
1	↑	1	1	1	Q1n	···	Q7n
1	↑	0	X	0	Q1n	···	Q7n
1	↑	X	0	0	Q1n	···	Q7n

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

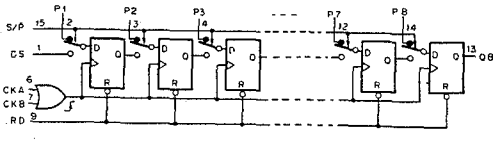


SN74LS166AN (TI)
TTL 8-BIT SHIFT REGISTER
— TOP VIEW —





DS; DATA SERIAL INPUT
P1 – P8; PARALLEL DATA INPUTS
CK; CLOCK



CKA	CKB	CK
0	0	0
X	↑	↑
↑	X	↑
↑	↑	↑
0	↓	↓
↓	0	↓

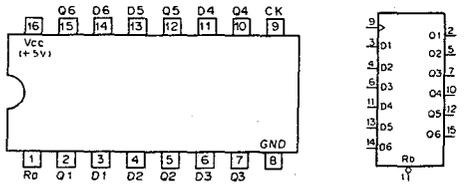
INPUTS					OUTPUT
RD	S/P	CK	DS	P1-P8	Q8
0	X	X	X	X	0
1	X	0	X	X	Q80
1	0	↑	X	1-8	8
1	1	↑	1	X	Q7n
1	1	↑	0	X	Q7n
1	X	↓	X	X	Q80

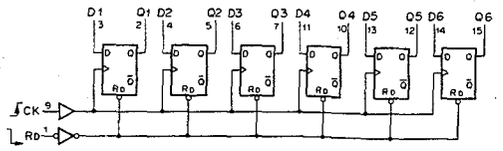
0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

SN74LS174N (TI)

TTL D-TYPE FLIP-FLOP WITH DIRECT RESET

— TOP VIEW —





EACH FLIP-FLOP

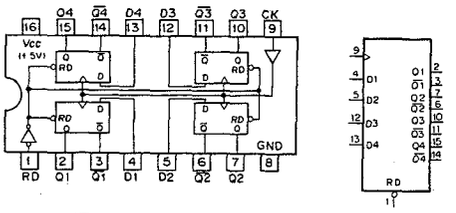
INPUTS			OUT
RD	CK	D	Q
0	X	X	0
1	↓	0	0
1	↓	1	1
1	0	X	Q_0

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

SN74LS175N (TI)

TTL D-TYPE FLIP-FLOP WITH CLEAR

— TOP VIEW —



RD	CK	D	Q	$\overline{Q}$
0	X	X	0	1
1	↓	1	1	0
1	↓	0	0	1
1	0	X	Q_0	$\overline{Q}_0$

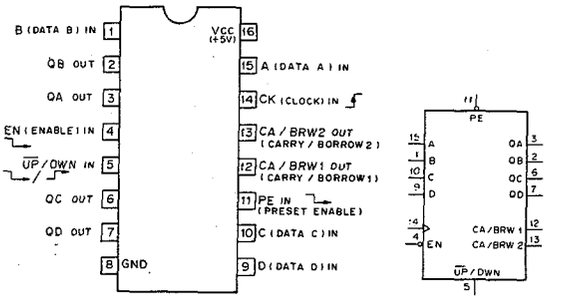
0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

SN74191N (TI)

SN74LS191N (TI)

TTL PRESETTABLE SYNCHRONOUS 4-BIT BINARY UP/DOWN COUNTER

— TOP VIEW —



MODE SELECTION

CONTROL INPUTS			MODE
PE	EN	UP/DWN	
0	X	X	PRESET (ASYNCHRONOUS)
1	1	X	NO COUNT
1	0	0	UP COUNT
1	0	1	DOWN COUNT

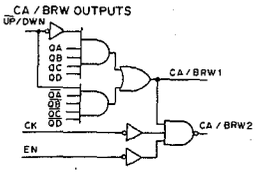
0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE.

COUNT SEQUENCE

COUNT	OUTPUTS			
	QD	QC	QB	QA
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
10	1	0	1	0
11	1	0	1	1
12	1	1	0	0
13	1	1	0	1
14	1	1	1	0
15	1	1	1	1

UP COUNT
DOWN COUNT

CA/BRW OUTPUTS



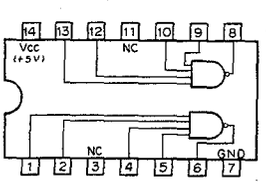
CA/BRW1 OUTPUT IS HIGH WHEN COUNT IS "15" AT UP-COUNT OR WHEN COUNT IS "0" AT DOWN COUNT.

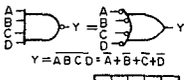
CA/BRW2 OUTPUT IS LOW WHEN BOTH THE CLOCK AND EN INPUTS ARE LOW AND CA/BRW1 OUTPUT IS HIGH.

SN74LS20N (TI)

TTL 4-INPUT POSITIVE NAND GATE

— TOP VIEW —





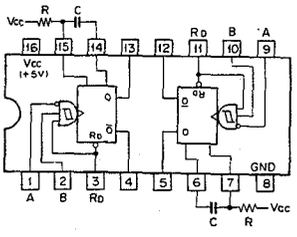
A	B	C	D	Y
0	0	0	0	1
0	0	0	1	1
0	0	1	0	1
0	0	1	1	1
0	1	0	0	1
:	:	:	:	:
1	1	0	1	1
1	1	1	0	1
1	1	1	1	0

0; LOW LEVEL
1; HIGH LEVEL

SN74LS221N (TI)

TTL MONOSTABLE MULTIVIBRATOR WITH SCHMITT TRIGGER INPUT

— TOP VIEW —

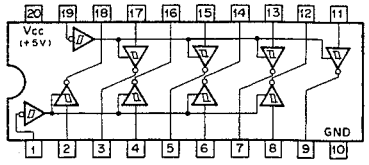


INPUTS			OUTPUTS	
RD	A	B	Q	$\overline{Q}$
0	X	X	0	1
X	1	X	0	1
X	X	0	0	1
1	0	↑	⊓	⊔
1	↓	1	⊓	⊔
↑	0	1	⊓	⊔

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

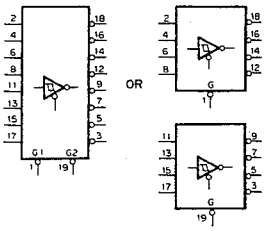
OUTPUT PULSE WIDTH ≈ 0.7CR

SN74LS240N (TI)
TTL 3-STATE SCHMITT TRIGGER INVERTER/LINE DRIVER
— TOP VIEW —

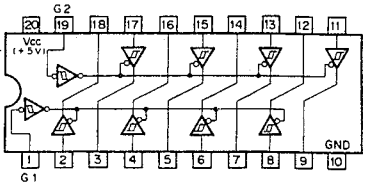


G	A	Y
0	0	1
0	1	0
1	X	HI-Z

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE
HI-Z ; HIGH IMPEDANCE

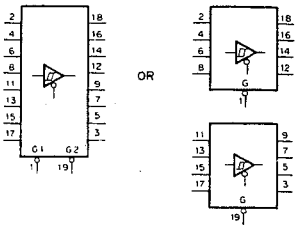


SN74LS244N (TI)
TTL 3-STATE SCHMITT TRIGGER BUFFER/DRIVER
— TOP VIEW —

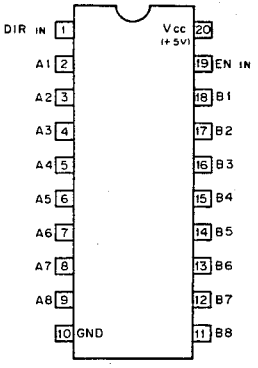


G	A	Y
0	0	0
0	1	1
1	X	HI-Z

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE
HI-Z ; HIGH IMPEDANCE

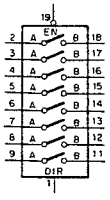


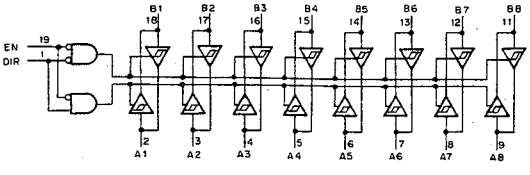
SN74LS245N (TI)
TTL BILATERAL SCHMITT TRIGGER BUS TRANSCEIVERS WITH 3-STATE OUTPUT
— TOP VIEW —



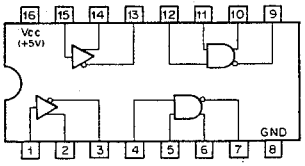
EN	DIR	OPERATION
0	0	B to A
0	1	A to B
1	X	HI-Z

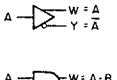
0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE.
HI-Z ; HIGH IMPEDANCE



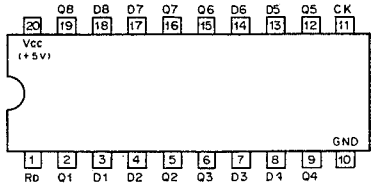


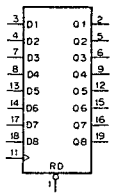
SN74265N (TI)
TTL COMPLEMENTARY-OUTPUT ELEMENT
— TOP VIEW —





SN74273N (TI)
SN74LS273N (TI)
TTL D-TYPE FLIP-FLOP WITH DIRECT RESET
– TOP VIEW –

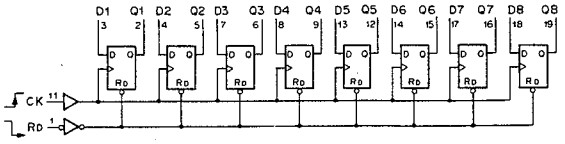




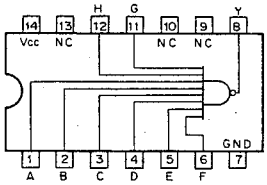
EACH FLIP - FLOP

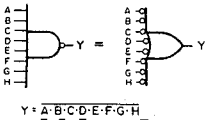
INPUTS			OUT
RD	CK	D	Q
0	X	X	0
1	↓	0	0
1	↓	1	1
1	0	X	Q0

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE



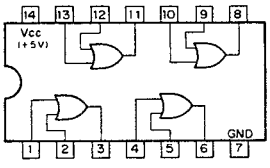
SN74LS30N (TI)
TTL 8-INPUT POSITIVE-NAND GATE
— TOP VIEW —

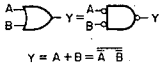




$Y = \overline{A \cdot B \cdot C \cdot D \cdot E \cdot F \cdot G \cdot H}$
$= \overline{A} + \overline{B} + \overline{C} + \cdots + \overline{H}$

SN74LS32N (TI)
SN74S32N (TI)
TTL 2-INPUT POSITIVE-OR GATE
— TOP VIEW —



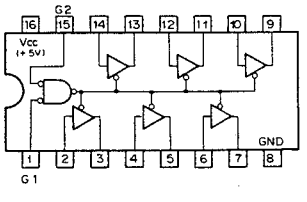


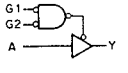
$Y = A + B = \overline{\overline{A}\ \overline{B}}$

A	B	Y
0	0	0
0	1	1
1	0	1
1	1	1

0 ; LOW LEVEL
1 ; HIGH LEVEL

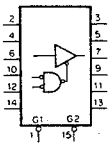
SN74365AN (TI)
TTL 3-STATE BUS DRIVER
— TOP VIEW —





G1	G2	A	Y
0	0	0	0
0	0	1	1
0	1	X	HI-Z
1	0	X	HI-Z
1	1	X	HI-Z

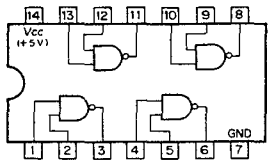
0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE
HI-Z ; HIGH IMPEDANCE

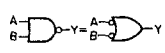


SN74LS37N (TI)

TTL 2-INPUT POSITIVE-NAND GATE BUFFER

— TOP VIEW —





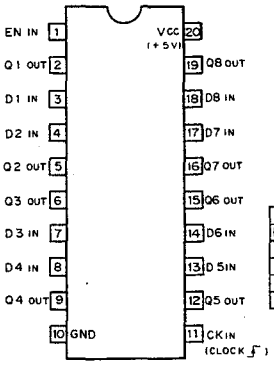
A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

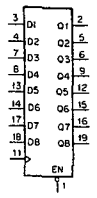
0 ; LOW LEVEL
1 ; HIGH LEVEL

SN74LS374N (TI)

TTL 3-STATE OUTPUTS OCTAL D-TYPE FLIP-FLOP

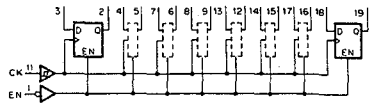
— TOP VIEW —





INPUTS			OUT
EN	D	CK	Q
0	1	↓	1
0	0	↓	0
0	X	0	Q0
1	X	X	HI-Z

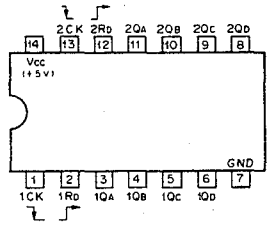
0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE
HI-Z ; HIGH IMPEDANCE

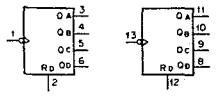


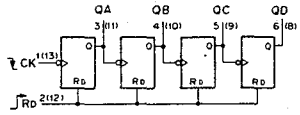
SN74LS393N (TI)

TTL 4-BIT BINARY COUNTER

— TOP VIEW —







COUNT SEQUENCE

COUNT	QD	QC	QB	QA
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
10	1	0	1	0
11	1	0	1	1
12	1	1	0	0
13	1	1	0	1
14	1	1	1	0
15	1	1	1	1

RESET/COUNT FUNCTION

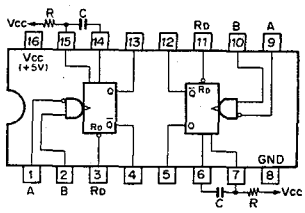
RD	QD	QC	QB	QA
1	0	0	0	0
0	COUNT			

0 ; LOW LEVEL
1 ; HIGH LEVEL

SN74LS423N (TI)

TTL RETRIGGERABLE MONOSTABLE MULTIVIBRATOR WITH DIRECT RESET

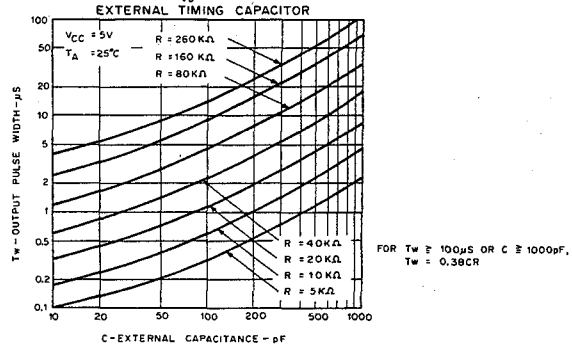
— TOP VIEW —



INPUTS			OUTPUTS	
RD	A	B	Q	Q̄
0	X	X	0	1
X	1	X	0	1
X	X	0	0	1
1	0	↑	⎍	⎍
1	↓	1	⎍	⎍

0 : LOW LEVEL
1 : HIGH LEVEL
X : DON'T CARE

OUTPUT PULSE WIDTH
vs
EXTERNAL TIMING CAPACITOR



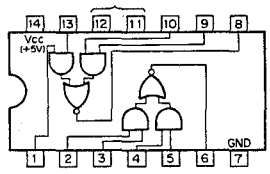
FOR Tw ≧ 100μS OR C ≧ 1000pF,
Tw = 0.38CR

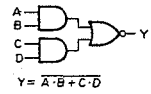
SN74S51N (TI)

TTL 2-WIDE 2-INPUT AND-OR-INVERT GATE

— TOP VIEW —

MAKE NO EXTERNAL CONNECTION

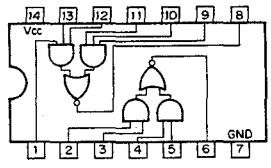


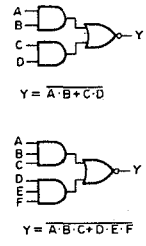


SN74LS51N (TI)

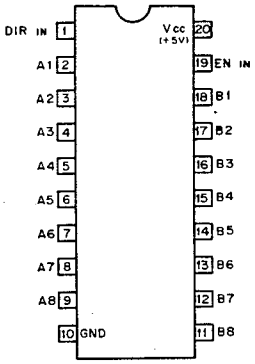
TTL 2-WIDE 2-INPUT / 3-INPUT AND-OR-INVERT GATE

— TOP VIEW —



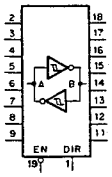


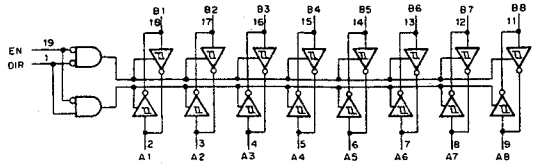
SN74LS640N (TI)
TTL BILATERAL SCHMITT TRIGGER BUS TRANSCEIVERS INVERTER
WITH 3-STATE OUTPUT
— TOP VIEW —



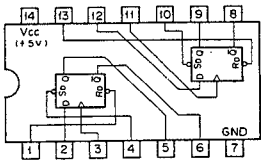
EN	DIR	OPERATION
0	0	B to A
0	1	A to B
1	X	HI-Z

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE
HI-Z; HIGH IMPEDANCE





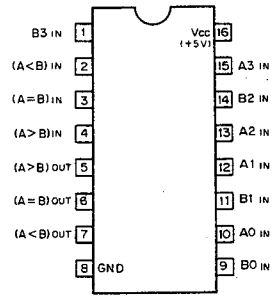
SN74ALS74N (TI)
SN74LS74AN (TI)
SN74S74N (TI)
TTL D-TYPE FLIP FLOP WITH DIRECT SET/RESET
— TOP VIEW —

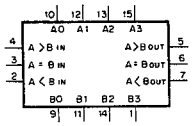


INPUTS				OUTPUTS	
Sd	Rd	CK	D	Qn+1	$\overline{Qn+1}$
0	1	X	X	1	0
1	0	X	X	0	1
0	0	X	X	1*	1*
1	1	↑	1	1	0
1	1	↑	0	0	1
1	1	0	X	Qn	$\overline{Qn}$

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE
1*; NONSTABLE

SN74LS85N (TI)
TTL 4-BIT MAGNITUDE COMPARATOR
— TOP VIEW —

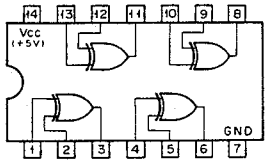




INPUTS									OUTPUTS		
	DATA COMPARING					CASCADING					
	A3, B3	A2, B2	A1, B1	A0, B0		A<B	A=B	A>B	A<B	A=B	A>B
A>B	A3>B3	X	X	X		X	X	X	0	0	1
	A3=B3	A2>B2	X	X							
	A3=B3	A2=B2	A1>B1	X							
	A3=B3	A2=B2	A1=B1	A0>B0							
A=B	A3=B3	A2=B2	A1=B1	A0=B0		0	0	0	1	0	1
						0	0	1	0	0	1
						X	1	X	0	1	0
						1	0	0	1	0	0
						1	0	1	0	0	0
A<B	A3=B3	A2=B2	A1=B1	A0<B0		X	X	X	1	0	0
	A3=B3	A2=B2	A1<B1	X							
	A3=B3	A2<B2	X	X							
	A3<B3	X	X	X							

0; LOW LEVEL 1; HIGH LEVEL X; DON'T CARE

SN74LS86N (TI)
TTL EXCLUSIVE OR GATE
— TOP VIEW —

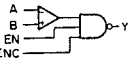


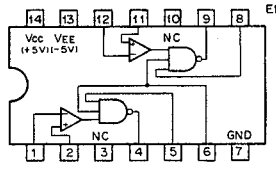
$Y = \overline{A} \cdot B + A \cdot \overline{B}$

A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

0; LOW LEVEL
1; HIGH LEVEL

SN75107AN (TI)
LINE RECEIVER
— TOP VIEW —

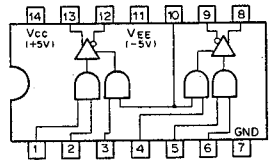


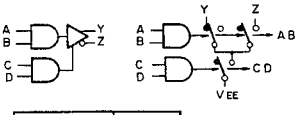


DIFF INPUTS	EN	ENC	Y
B-A ≦ -25mV	X	X	1
	X	0	1
|B-A| < 25mV	0	X	1
	1	1	N D
	X	0	1
B-A ≧ 25mV	0	X	1
	1	1	0

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE
ND; NOT DEFINED

SN75110AN (TI)
LINE DRIVER
— TOP VIEW —

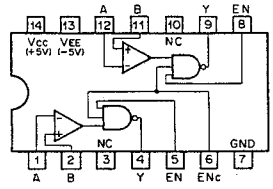




INPUTS				OUTPUTS	
A	B	C	D	Y	Z
X	X	X	0	OFF	OFF
X	X	0	X	OFF	OFF
X	0	1	1	ON	OFF
0	X	1	1	ON	OFF
1	1	1	1	OFF	ON

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

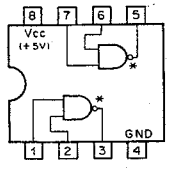
SN75207BN (TI)
BIPOLAR LINE RECEIVER (TTL COMPATIBLE)
— TOP VIEW —

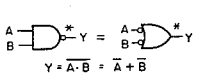


INPUTS			OUT
B-A	EN	ENc	Y
B-A ≧ 10mV	X	0	1
	0	X	1
	1	1	0
|B-A| < 10mV	X	0	1
	0	X	1
	1	1	*
B-A ≦ -10mV	X	X	1

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE
*; INDETERMINATE

SN75452BP (TI)
TTL PERIPHERAL POSITIVE-NAND DRIVER
WITH OPEN-COLLECTOR
— TOP VIEW —



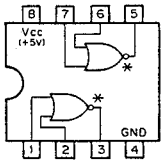


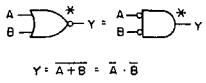
$Y = \overline{A \cdot B} = \overline{A} + \overline{B}$

A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

0; LOW LEVEL
1; HIGH LEVEL

SN75454BP (TI)
TTL PERIPHERAL POSITIVE-NOR DRIVER WITH OPEN COLLECTOR
— TOP VIEW —

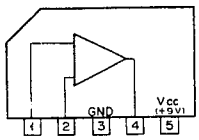




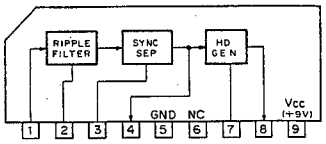
A	B	Y
0	0	1
0	1	0
1	0	0
1	1	0

0 ; LOW LEVEL
1 ; HIGH LEVEL

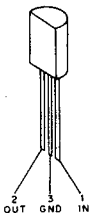
TA7060AP (TOSHIBA)
LINEAR AMP
— SIDE VIEW —

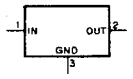


TA7357AP (TOSHIBA)
SYNC SEPARATOR/HD PULSE GENERATOR
— SIDE VIEW —



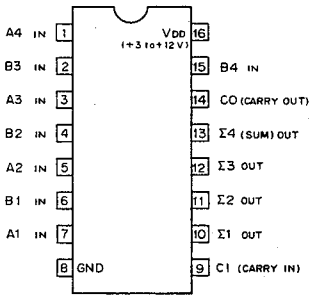
TA78L ? ? ?AP (TOSHIBA)
VOLTAGE REGULATOR

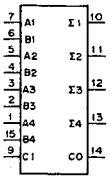




+5V	TA78L005AP
+6V	TA78L006AP
+7V	TA78L007AP
+7.5V	TA78L075AP
+8V	TA78L008AP
+9V	TA78L009AP
+10V	TA78L010AP
+12V	TA78L012AP
+13.2V	TA78L132AP
+15V	TA78L015AP
+18V	TA78L018AP
+20V	TA78L020AP
+24V	TA78L024AP

TC4008BP (TOSHIBA)
C-MOS 4-BIT FULL ADDER
— TOP VIEW —

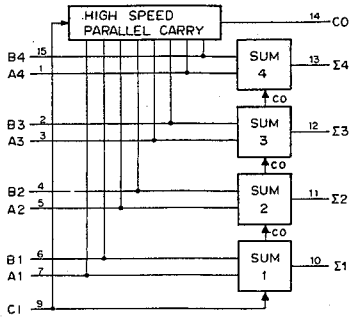




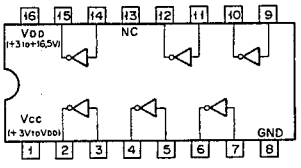
ONE STAGE

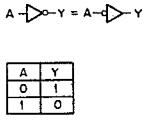
INPUTS			OUTPUTS	
CI	B	A	CO	Σ
0	0	0	0	0
0	0	1	0	1
0	1	0	0	1
0	1	1	1	0
1	0	0	0	1
1	0	1	1	0
1	1	0	1	0
1	1	1	1	1

0 ; LOW LEVEL
1 ; HIGH LEVEL



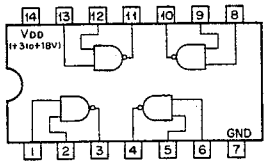
TC4009UBP (TOSHIBA)
C-MOS INVERTING TYPE BUFFER/CONVERTER (TO TTL LEVEL)
— TOP VIEW —

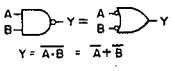




A	Y
0	1
1	0

TC4011BP (TOSHIBA)
μPD4011BC (NEC)
C-MOS 2-INPUT NAND GATE
– TOP VIEW –

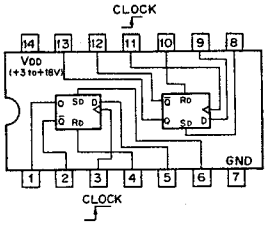




A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

0:LOW LEVEL
1:HIGH LEVEL

TC4013BP (TOSHIBA)
C-MOS D-TYPE FLIP FLOP WITH DIRECT SET/RESET
— TOP VIEW —



DIRECT R-S FLIP FLOP

Sd	Rd	Q	$\bar{Q}$
0	0	On	$\bar{On}$
0	1	0	1
1	0	1	0
1	1	0	1

D-TYPE FLIP FLOP

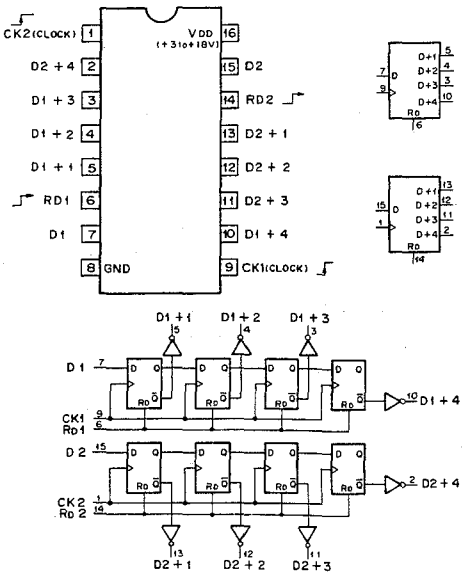
CKn	CKn+1
D	Q
0	0
1	1

CLOCK CK; ⌐
CKn ; BEFORE CLOCK
CKn+1 ; AFTER CLOCK
0 ; LOW LEVEL
1 ; HIGH LEVEL

TC4015BP (TOSHIBA)

C-MOS DUAL 4-STAGE STATIC SHIFT REGISTER WITH DIRECT RESET

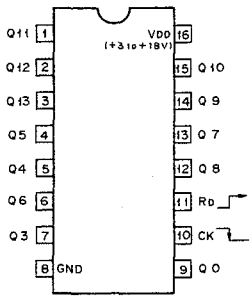
— TOP VIEW —

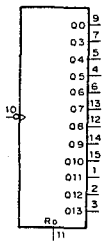


TC4017BP (TOSHIBA)

C-MOS DECADE COUNTER/DIVIDER

— TOP VIEW —





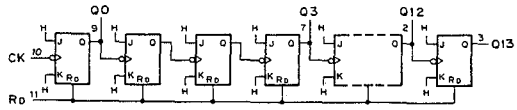
RD	Q13-Q0
1	ALL LOW
0	COUNT

COUNT		BINARY OUTPUTS											
		Q13	Q12	Q11	Q10	Q9	Q8	Q7	Q6	Q5	Q4	Q3	Q0
0	0000	0	0	0	0	0	0	0	0	0	0	0	0
1	0001	0	0	0	0	0	0	0	0	0	0	0	1
2	0002	0	0	0	0	0	0	0	0	0	0	0	0
3	0003	0	0	0	0	0	0	0	0	0	0	0	1
4	0004	0	0	0	0	0	0	0	0	0	0	0	0
16380	4FFC	1	1	1	1	1	1	1	1	1	1	1	0
16381	4FFD	1	1	1	1	1	1	1	1	1	1	1	1
16382	4FFE	1	1	1	1	1	1	1	1	1	1	1	0
16383	4FFF	1	1	1	1	1	1	1	1	1	1	1	1

IN HEXADECIMAL

IN DECIMAL

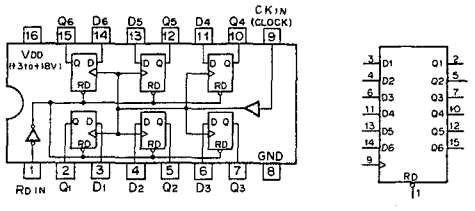
0; LOW LEVEL
1; HIGH LEVEL



TC40174BP (TOSHIBA)

C-MOS D-TYPE FLIP-FLOP

— TOP VIEW —



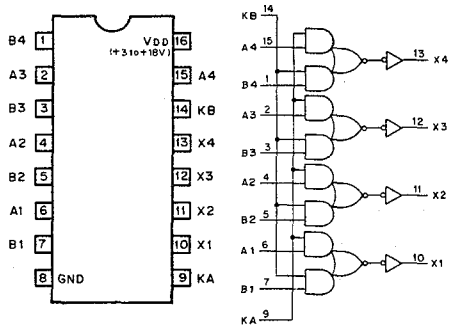
INPUTS			OUTPUT
CK	D	RD	Q
↓	0	1	0
↓	1	1	1
↑	X	1	Q0
X	X	0	0

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

TC4019BP (TOSHIBA)

C-MOS AND-OR SELECT GATE

— TOP VIEW —



$Xn = An \cdot KA + Bn \cdot KB$

KA	KB	Xn
0	0	0
1	0	An
0	1	Bn
1	1	An+Bn

(n = 1 ~ 4)

TC4020BP (TOSHIBA)

C-MOS 14-STAGE RIPPLE-CARRY BINARY COUNTER/DRIVER

— TOP VIEW —

RD	Q13-Q0
1	ALL LOW
0	COUNT

COUNT		BINARY OUTPUTS											
		Q13	Q12	Q11	Q10	Q9	Q8	Q7	Q6	Q5	Q4	Q3	Q0
0	0000	0	0	0	0	0	0	0	0	0	0	0	0
1	0001	0	0	0	0	0	0	0	0	0	0	0	1
2	0002	0	0	0	0	0	0	0	0	0	0	0	0
3	0003	0	0	0	0	0	0	0	0	0	0	0	1
4	0004	0	0	0	0	0	0	0	0	0	0	0	0
16380	4FFC	1	1	1	1	1	1	1	1	1	1	1	0
16381	4FFD	1	1	1	1	1	1	1	1	1	1	1	1
16382	4FFE	1	1	1	1	1	1	1	1	1	1	1	0
16383	4FFF	1	1	1	1	1	1	1	1	1	1	1	1

IN HEXADECIMAL

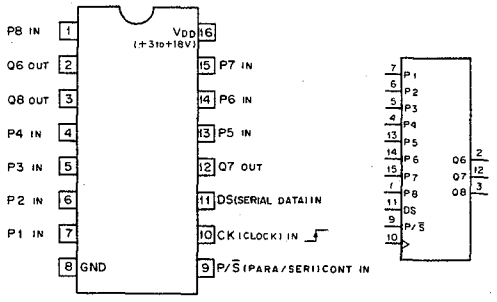
IN DECIMAL

0; LOW LEVEL
1; HIGH LEVEL

TC4021BP (TOSHIBA)

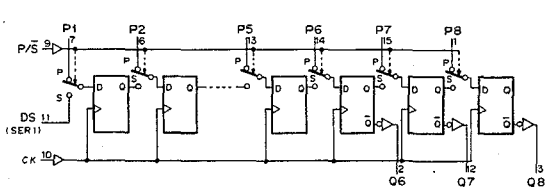
C-MOS ASYNCHRONOUS PARALLEL/SYNCHRONOUS SERIAL INPUT 8-BIT STATIC SHIFT REGISTER

— TOP VIEW —

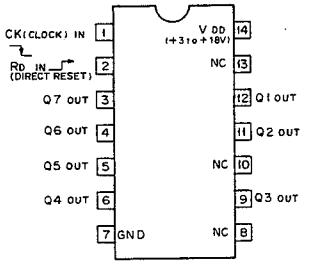


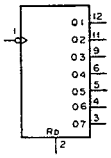
tn				tn + 1							
INPUT				INTERNAL OUTPUTS					OUTPUTS		
P/S CONT	CK	P	DS	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
1	X	P1 ~ P8	X	P1	P2	P3	P4	P5	P6	P7	P8
0	↓	X	1	1	Q1n	Q2n	Q3n	Q4n	Q5n	Q6n	Q7n
0	↓	X	0	0	Q1n	Q2n	Q3n	Q4n	Q5n	Q6n	Q7n
X	0	X	X	Q1n	Q2n	Q3n	Q4n	Q5n	Q6n	Q7n	Q8n

0; LOW LEVEL X; DON'T CARE. tn; BEFORE CLOCK
1; HIGH LEVEL tn+1; AFTER CLOCK



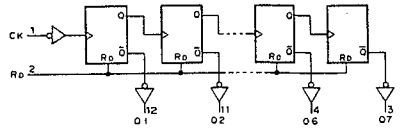
TC4024BP (TOSHIBA)
C-MOS ASYNCHRONOUS 7-BIT BINARY COUNTER
— TOP VIEW —



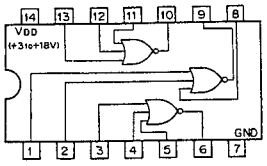


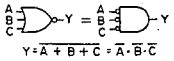
COUNT	INPUTS		OUTPUTS							
	CK	RD	Q7	Q6	Q5	Q4	Q3	Q2	Q1
0	X	1	0	0	0	0	0	0	0
1	↓	0	0	0	0	0	0	0	1
2	↓	0	0	0	0	0	0	1	0
3	↓	0	0	0	0	0	0	1	1
4	↓	0	0	0	0	0	1	0	0
125	↓	0	1	1	1	1	1	0	1
126	↓	0	1	1	1	1	1	1	0
127	↓	0	1	1	1	1	1	1	1
—	0	0	NO CHANGE						
—	1	0							

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE



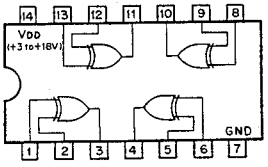
TC4025BP (TOSHIBA)
C-MOS 3-INPUT NOR GATE
— TOP VIEW —





A	B	C	Y
0	0	0	1
X	X	1	0
X	1	X	0
1	X	X	0

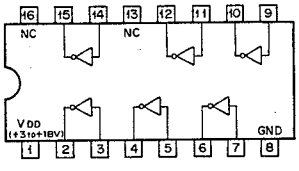
TC4030BP (TOSHIBA)
uPD4030BC (NEC)
C-MOS EXCLUSIVE OR GATE
— TOP VIEW —

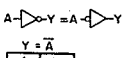


A	B	Y
0	0	0
0	1	1
1	0	1
1	1	0

0 : LOW LEVEL
1 : HIGH LEVEL

TC4049BP (TOSHIBA)
C-MOS INVERTING TYPE BUFFER/CONVERTER
— TOP VIEW —

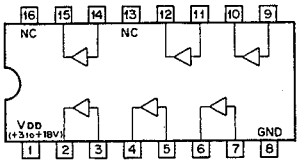


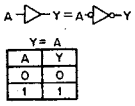


A	Y
0	1
1	0

0 ; LOW LEVEL
1 ; HIGH LEVEL

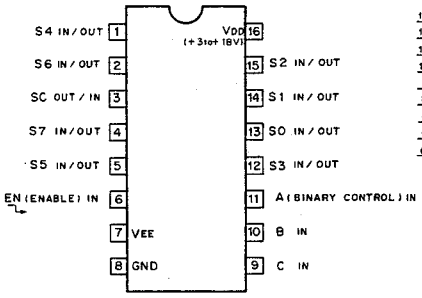
TC4050BP (TOSHIBA)
uPD4050C (NEC)
C-MOS NON-INVERTING TYPE BUFFER/CONVERTER
— TOP VIEW —

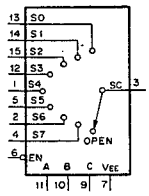




A	Y
0	0
1	1

TC4051BP (TOSHIBA)
C-MOS 8-CHANNEL MULTIPLEXER/DEMULTIPLEXER
— TOP VIEW —

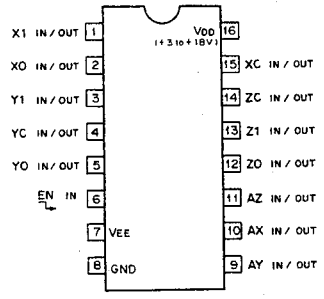


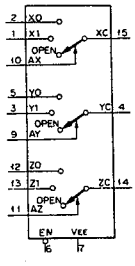


EN	C	B	A	"ON" CHANNEL
0	0	0	0	0
0	0	0	1	1
0	0	1	0	2
0	0	1	1	3
0	1	0	0	4
0	1	0	1	5
0	1	1	0	6
0	1	1	1	7
1	X	X	X	OPEN

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

TC4053BP (TOSHIBA)
uPD4053BC (NEC)
C-MOS 2-CHANNEL MULTIPLEXER/DEMULTIPLEXER
— TOP VIEW —

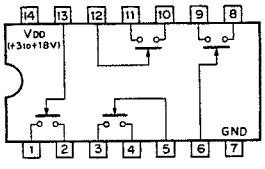




CONT. INPUTS		ON
EN	A (X,Y,Z,)	CHANNEL
0	0	0
0	1	1
1	X	OPEN

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE.

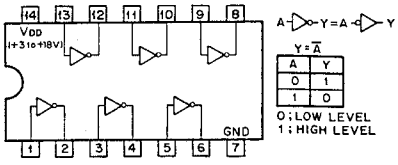
TC4066BP (TOSHIBA)
uPD4066BC (NEC)
C-MOS BILATERAL SWITCH
— TOP VIEW —



CONT IN	SW
0	OFF
1	ON

0 ; LOW LEVEL
1 ; HIGH LEVEL

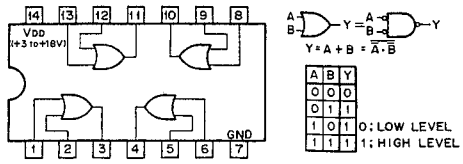
TC4069UBP (TOSHIBA)
uPD4069UBC (NEC)
C-MOS INVERTER
– TOP VIEW –



A	Y
0	1
1	0

0 ; LOW LEVEL
1 ; HIGH LEVEL

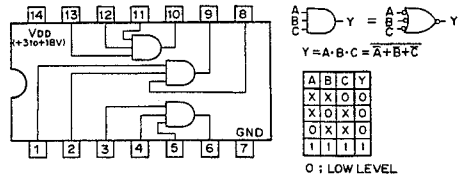
TC4071BP (TOSHIBA)
uPD4071BC (NEC)
C-MOS 2-INPUT OR GATE
– TOP VIEW –



A	B	Y
0	0	0
0	1	1
1	0	1
1	1	1

0 ; LOW LEVEL
1 ; HIGH LEVEL

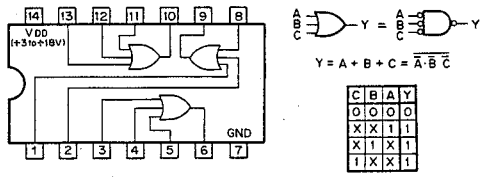
TC4073BP (TOSHIBA)
uPD4073BC (NEC)
C-MOS 3-INPUT POSITIVE AND GATE
– TOP VIEW –



A	B	C	Y
X	X	0	0
X	0	X	0
0	X	X	0
1	1	1	1

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

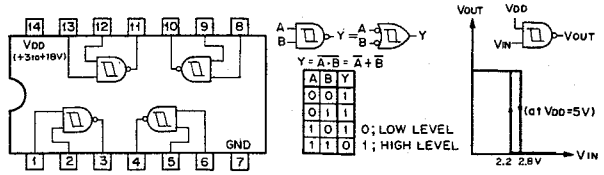
TC4075BP (TOSHIBA)
C-MOS 3-INPUT OR GATE
— TOP VIEW —



C	B	A	Y
0	0	0	0
X	X	1	1
X	1	X	1
1	X	X	1

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

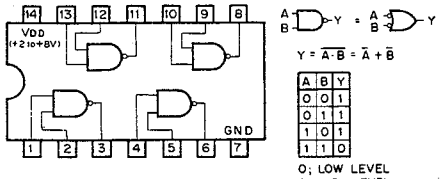
TC4093BP (TOSHIBA)
C-MOS 2-INPUT NAND SCHMITT TRIGGER
— TOP VIEW —



A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

0 ; LOW LEVEL
1 ; HIGH LEVEL

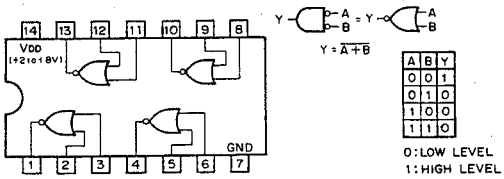
TC40H000P (TOSHIBA)
C-MOS 2-INPUT NAND GATE
— TOP VIEW —



A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

0; LOW LEVEL
1; HIGH LEVEL

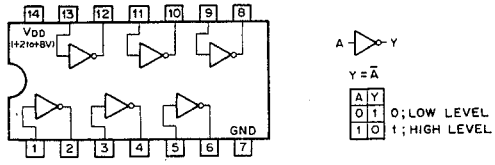
TC40H002P (TOSHIBA)
C-MOS 2-INPUT NOR GATE
— TOP VIEW —



A	B	Y
0	0	1
0	1	0
1	0	0
1	1	0

0:LOW LEVEL
1:HIGH LEVEL

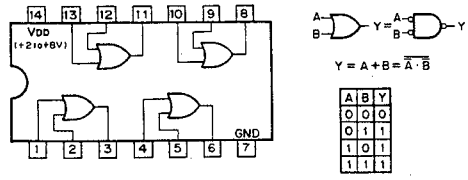
TC40H004P (TOSHIBA)
C-MOS INVERTER
— TOP VIEW —



A	Y
0	1
1	0

0;LOW LEVEL
1;HIGH LEVEL

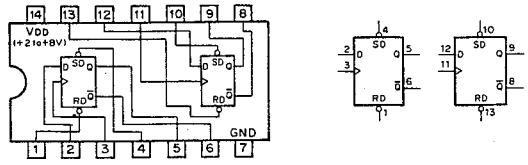
TC40H032P (TOSHIBA)
C-MOS 2-INPUT POSITIVE-OR GATE
— TOP VIEW —



A	B	Y
0	0	0
0	1	1
1	0	1
1	1	1

0:LOW LEVEL
1:HIGH LEVEL

TC40H074P (TOSHIBA)
C-MOS HIGH SPEED D-TYPE FLIP-FLOP WITH DIRECT SET/RESET
— TOP VIEW —



D-MODE

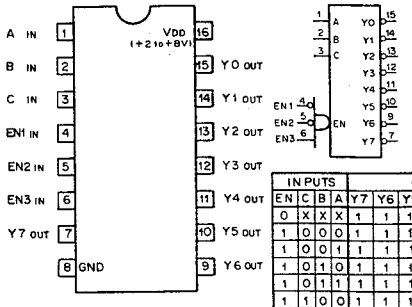
tn	tn + 1	
D	Q	$\bar{Q}$
0	0	1
1	1	0

R-S MODE

INPUT		OUTPUT	
RD	SD	Q	$\bar{Q}$
0	0	1	1
0	1	0	1
1	0	1	0
1	1	D-MODE	

0;LOW LEVEL
1;HIGH LEVEL

TC40H138P (TOSHIBA)
C-MOS 3-TO-8-LINE DECODER/DEMULTIPLEXER
— TOP VIEW —

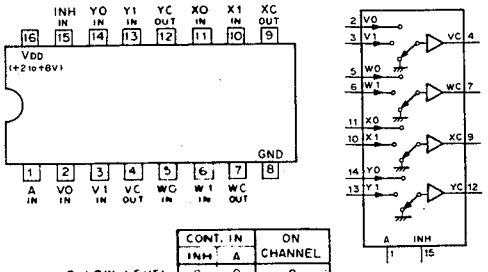


INPUTS				OUTPUTS							
EN	C	B	A	Y7	Y6	Y5	Y4	Y3	Y2	Y1	Y0
0	X	X	X	1	1	1	1	1	1	1	1
1	0	0	0	1	1	1	1	1	1	1	0
1	0	0	1	1	1	1	1	1	1	0	1
1	0	1	0	1	1	1	1	1	0	1	1
1	0	1	1	1	1	1	1	0	1	1	1
1	1	0	0	1	1	1	0	1	1	1	1
1	1	0	1	1	1	0	1	1	1	1	1
1	1	1	0	1	0	1	1	1	1	1	1
1	1	1	1	0	1	1	1	1	1	1	1

EN = $\overline{EN1} \cdot \overline{EN2} \cdot EN3$

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

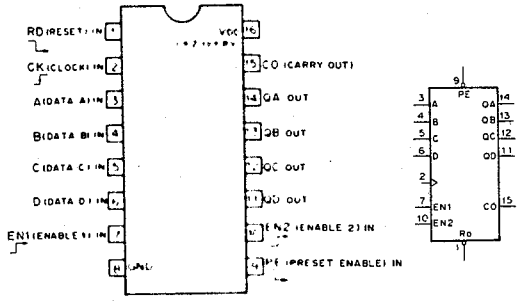
TC40H157P (TOSHIBA)
C-MOS 2-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER
— TOP VIEW —



CONT. IN		ON CHANNEL
INH	A	
0	0	0
0	1	1
1	X	GND

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

TC40H161P (TOSHIBA)
C-MOS PRESETTABLE SYNCHRONOUS 4 BIT BINARY COUNTER
— TOP VIEW —



MODE SELECTION

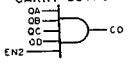
CONTROL INPUTS				MODE
RD	PE	EN1	EN2	
0	X	X	X	RESET (ASYNCHRONOUS)
1	0	X	X	PRESET (SYNCHRONOUS)
1	1	0	X	NO COUNT
1	1	X	0	NO COUNT
1	1	1	1	COUNT

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

COUNT SEQUENCE

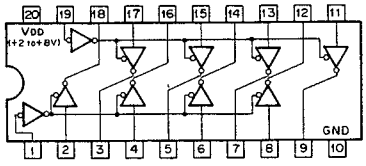
COUNT	OUTPUTS			
	QD	QC	QB	QA
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
10	1	0	1	0
11	1	0	1	1
12	1	1	0	0
13	1	1	0	1
14	1	1	1	0
15	1	1	1	1

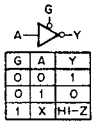
CARRY OUTPUT "CO"



CO IS HIGH WHEN EN2 INPUT IS HIGH AND COUNT IS "15".

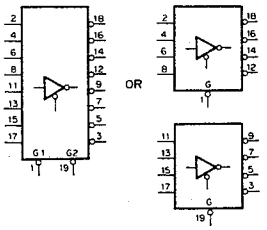
TC40H240P (TOSHIBA)
C-MOS 3-STATE INVERTER/LINE DRIVER
— TOP VIEW —



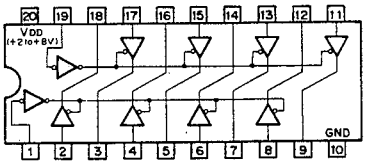


G	A	Y
0	0	1
0	1	0
1	X	HI-Z

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE
HI-Z; HIGH IMPEDANCE

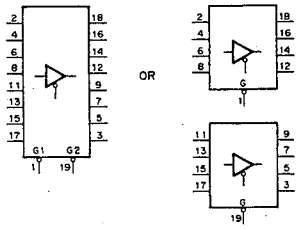


TC40H244P (TOSHIBA)
C-MOS 3-STATE BUFFER/DRIVER
— TOP VIEW —

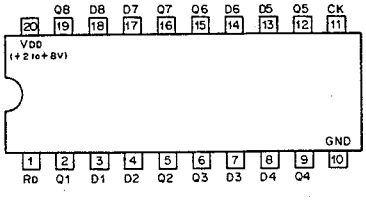


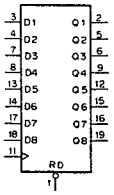
G	A	Y
0	0	0
0	1	1
1	X	HI-Z

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE
HI-Z; HIGH IMPEDANCE



TC40H273P (TOSHIBA)
C-MOS D-TYPE FLIP-FLOP WITH DIRECT RESET
— TOP VIEW —

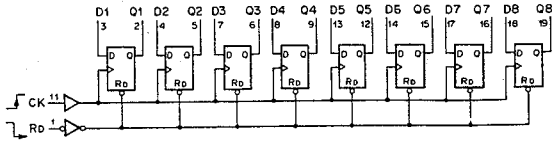




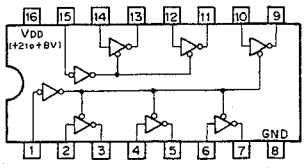
EACH FLIP-FLOP

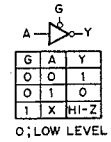
INPUTS			OUT
RD	CK	D	Q
0	X	X	0
1	↓	0	0
1	↓	1	1
1	0	X	Q0

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE



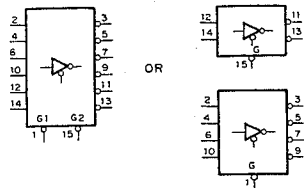
TC40H368P (TOSHIBA)
C-MOS INVERTING 3-STATE BUFFER
— TOP VIEW —



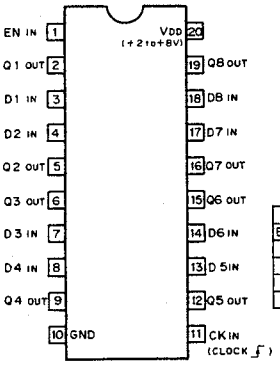


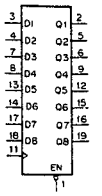
G	A	Y
0	0	1
0	1	0
1	X	HI-Z

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE
HI-Z ; HIGH IMPEDANCE



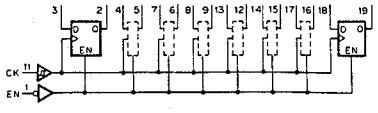
TC40H374P (TOSHIBA)
C-MOS 3-STATE OUTPUTS OCTAL D-TYPE FLIP-FLOP
— TOP VIEW —



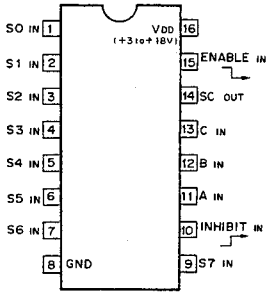


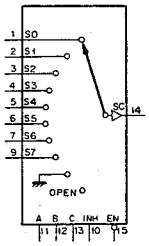
INPUTS			OUT
EN	D	CK	Q
0	1	↑	1
0	0	↑	0
0	X	0	Q0
1	X	X	HI-Z

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE
HI-Z ; HIGH IMPEDANCE



TC4512BP (TOSHIBA)
C-MOS 8-CHANNEL DATA SELECTOR/MULTIPLEXER
— TOP VIEW —

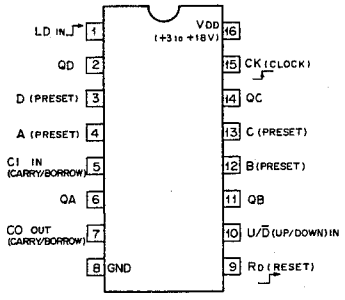


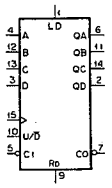


CONTROL INPUTS					OUTPUT
EN	INH	C	B	A	SC
0	0	0	0	0	S0
0	0	0	0	1	S1
0	0	0	1	0	S2
0	0	0	1	1	S3
0	0	1	0	0	S4
0	0	1	0	1	S5
0	0	1	1	0	S6
0	0	1	1	1	S7
0	1	X	X	X	GND
1	X	X	X	X	OPEN

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

TC4516BP (TOSHIBA)
uPD4516BC (NEC)
C-MOS PRESETTABLE BINARY UP/DOWN COUNTER
— TOP VIEW —





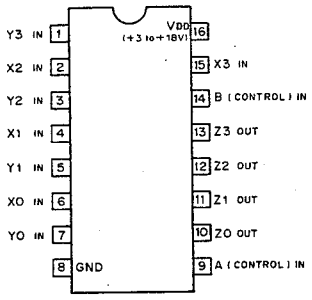
INPUTS					OUTPUTS			
CK	RD	LD	CI	U/D	QD	QC	QB	QA
X	1	X	X	X	0	0	0	0
X	0	1	X	X	SET TO A,B,C,D			
↓	0	0	0	1	COUNT UP			
↓	0	0	0	0	COUNT DOWN			
0	0	0	X	X	NO CHANGE			
X	0	0	1	X	NO CHANGE			

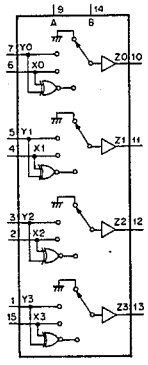
CO = L
CI = L B (DOWN · COUNT "0" OR UP · COUNT "15")

COUNT	OUTPUTS			
	QD	QC	QB	QA
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
10	1	0	1	0
11	1	0	1	1
12	1	1	0	0
13	1	1	0	1
14	1	1	1	0
15	1	1	1	1

COUNT UP
COUNT DOWN

TC4519BP (TOSHIBA)
uPD4519BC (NEC)
C-MOS 4-BIT AND/OR SELECTOR
2-CHANNEL DATA SELECTOR
EXCLUSIVE "NOR" GATE
— TOP VIEW —

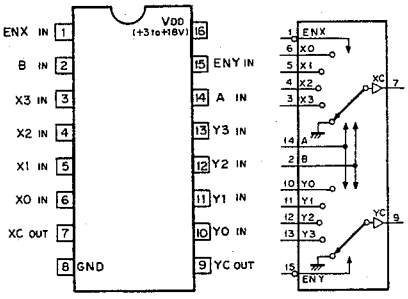




CONTROL		OUTPUT
A	B	Z
0	0	GND
0	1	Y
1	0	X
1	1	X Y Z

0 ; LOW LEVEL
1 ; HIGH LEVEL

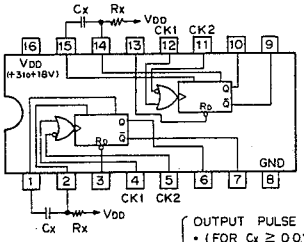
TC4539BP (TOSHIBA)
C-MOS DUAL 4-CHANNEL DATA SELECTOR/MULTIPLEXER
— TOP VIEW —



CONT IN			ON CHANNEL
EN	B	A	
0	0	0	0
0	0	1	1
0	1	0	2
0	1	1	3
1	X	X	GND

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

TC4528BP (TOSHIBA)
C-MOS RETRIGGERABLE/RESETTABLE MMV
— TOP VIEW —

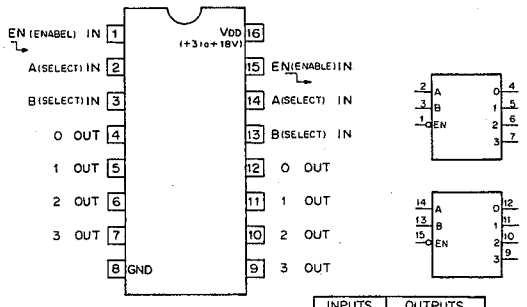


INPUTS			OUTPUTS	
CK1	CK2	RD	Q	Q̄
↓	1	1	↑	↓
↓	0	1	0	1
1	↑	1	↑	↓
0	↑	1	↑	↓
X	X	0	0	1

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

OUTPUT PULSE WIDTH Q OR Q̄
• (FOR Cx ≧ 0.01μF USE FORMULA)
PW = 0.2 · Rx · Cx · ℓn (VDD − GND)
• (FOR Cx < 0.01μF USE DATA BOOK)

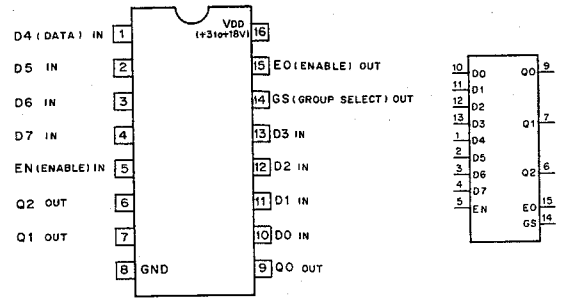
TC4555BP (TOSHIBA)
C-MOS BINARY TO 1-OF-4 DECODER/DEMULTIPLEXER
— TOP VIEW —



INPUTS			OUTPUTS			
EN	B	A	3	2	1	0
0	0	0	0	0	0	1
0	0	1	0	0	1	0
0	1	0	0	1	0	0
0	1	1	1	0	0	0
1	X	X	0	0	0	0

0; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE

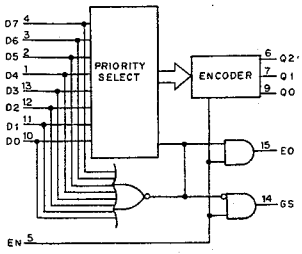
TC4532BP (TOSHIBA)
C-MOS 8-BIT PRIORITY ENCODER
— TOP VIEW —



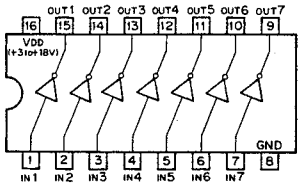
D7 IS THE HIGHEST PRIORITY

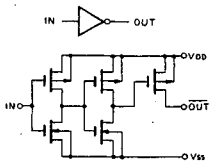
INPUTS									OUTPUTS				
EN	D7	D6	D5	D4	D3	D2	D1	DO	GS	Q2	Q1	QO	EO
0	X	X	X	X	X	X	X	X	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0	0	0	1
1	1	X	X	X	X	X	X	X	1	1	1	1	0
1	0	1	X	X	X	X	X	X	1	1	1	0	0
1	0	0	1	X	X	X	X	X	1	1	0	1	0
1	0	0	0	1	X	X	X	X	1	1	0	0	0
1	0	0	0	0	1	X	X	X	1	0	1	1	0
1	0	0	0	0	0	1	X	X	1	0	1	0	0
1	0	0	0	0	0	0	1	X	1	0	0	1	0
1	0	0	0	0	0	0	0	1	1	0	0	0	0

1 : HIGH LEVEL
0 : LOW LEVEL
X : DON'T CARE

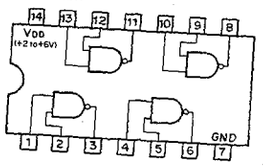


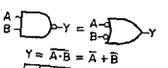
TC5067BP (TOSHIBA)
C-MOS HIGH VOLTAGE BUFFER/INVERTING TYPE
— TOP VIEW —





TC74HC00P (TOSHIBA)
C-MOS 2-INPUT NAND GATE
— TOP VIEW —

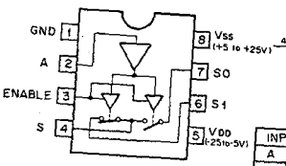


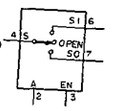


A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

0; LOW LEVEL
1; HIGH LEVEL

TL607CP (TI)
P-MOS ANALOG SWITCH
— TOP VIEW —

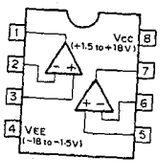




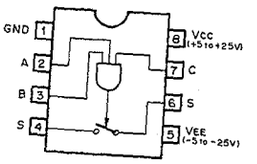
INPUTS A	INPUTS EN	SW
X	0	OPEN
0	1	6–7
1	1	5–7

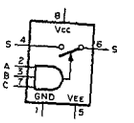
0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

TL062CP (TI)
OPERATIONAL AMPLIFIER
(JFET INPUT)
— TOP VIEW —



TL610CP (TI)
MOS ANALOG SWITCH
— TOP VIEW —

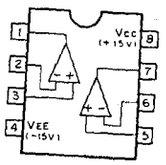




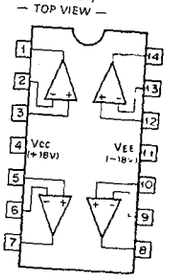
CONT IN A	CONT IN B	CONT IN C	S
0	X	X	OFF(OPEN)
X	0	X	OFF(OPEN)
X	X	0	OFF(OPEN)
1	1	1	ON(CLOSED)

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

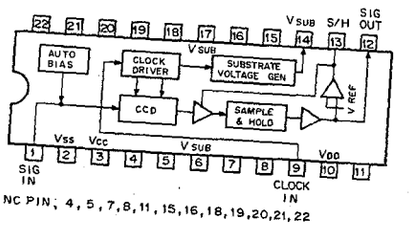
TL082CP (TI)
uPC4082C (NEC)
OPERATIONAL AMPLIFIER
(J FET-INPUT)
— TOP VIEW —



TL084CN (TI)
OPERATIONAL AMPLIFIER
(J FET-INPUT)
— TOP VIEW —

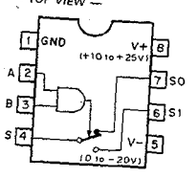


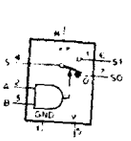
TL8605P (TOSHIBA)
TL8605P-S (TOSHIBA)
CCD ANALOG PROCESSING UNIT
— TOP VIEW —



NC PIN; 4, 5, 7, 8, 11, 15, 16, 18, 19, 20, 21, 22

TL601CP (TI)
P-MOS ANALOG SWITCH
— TOP VIEW —

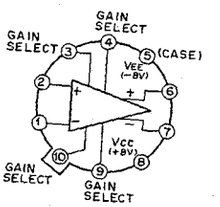




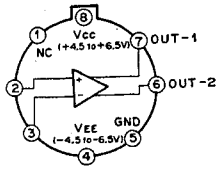
CONT IN A	CONT IN B	ON CHANNEL
0	0	SO
0	1	SO
1	0	SO
1	1	S1

0; LOW LEVEL
1; HIGH LEVEL

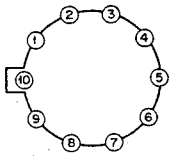
uA733HC (FSC)
DIFFERENTIAL VIDEO AMPLIFIER
— BOTTOM VIEW —



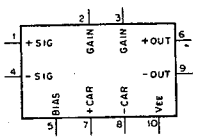
uA760HC (FSC)
HIGH SPEED VOLTAGE COMPARATOR
— TOP VIEW —



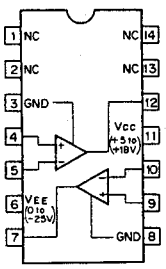
uA796HC (FSC)
uA796HCA (FSC)
DOUBLE-BALANCED MOD/DEMOD.
— BOTTOM VIEW —



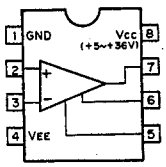
1 +SIGNAL INPUT
2 GAIN ADJUST
3 GAIN ADJUST
4 -SIGNAL INPUT
5 BIAS
6 +OUTPUT
7 +CARRIER INPUT
8 -CARRIER INPUT
9 -OUTPUT
10 VEE



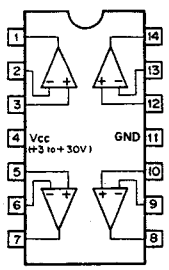
uPC272C (NEC)
uPC319C (NEC)
DUAL VOLTAGE COMPARATOR
— TOP VIEW —



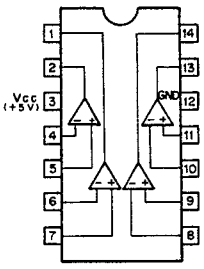
uPC311C (NEC)
VOLTAGE COMPARATOR
— TOP VIEW —



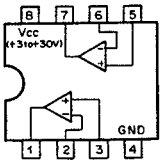
uPC324C (NEC)
QUAD. OP AMPLIFIER
— TOP VIEW —



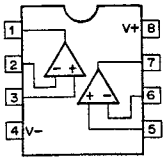
uPC339C (NEC)
COMPARATOR
— TOP VIEW —



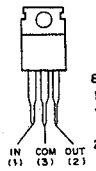
uPC358C (NEC)
DUAL OPERATIONAL AMPLIFIERS
— TOP VIEW —



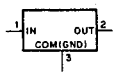
uPC4557C (NEC)
OPERATIONAL AMPLIFIER (WIDE BAND, LOW NOISE)
— TOP VIEW —



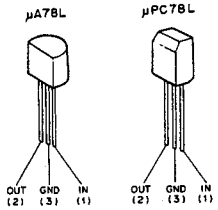
uPC78 ? ?H (NEC)
POSITIVE VOLTAGE REGULATOR (1A)



5V	μA7805UC	FS7805	μPC14305H	μPC7805H	HA17805P
6V	μA7806UC				HA17806P
7V					HA17807P
8V	μA7808UC		μPC14308H	μPC7808H	HA17808P
8.5V	μA7885UC				
12V	μA7812UC	FS7812	μPC14312H	μPC7812H	HA17812P
15V	μA7815UC	FS7815	μPC14315H	μPC7815H	HA17815P
18V	μA7818UC		μPC14318H	μPC7818H	HA17818P
24V	μA7824UC	FS7824	μPC14324H	μPC7824H	HA17824P

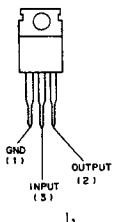


uPC78L ? ? (NEC)
POSITIVE VOLTAGE REGULATOR (100mA)



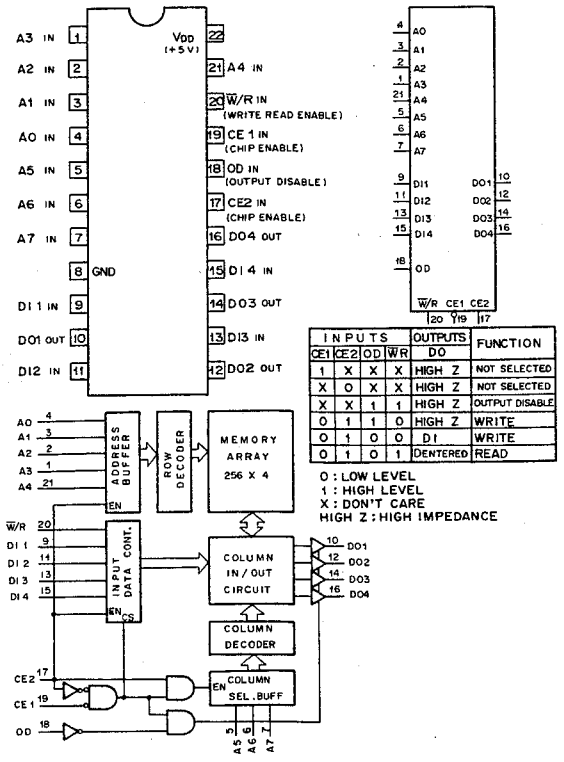
2.6V	μA78L26AWV	μA78L02ACL	
5V	μA78L05AWV	μA78L05ACL	μPC78L05(A)
6.2V	μA78L62AWV	μA78L06ACL	
8V		μA78L08ACL	μPC78L08
8.2V	μA78L82AWV		
9V	μA78L09AWV	μA78L09ACL	
10V		μA78L10ACL	
12V	μA78L12 AWV	μA78L12 ACL	μPC78L12
15V	μA78L15 AWV	μA78L15 ACL	μPC78L15
18V	μA78L18 AWV		
24V	μA78L24AWV		

uPC79 ? ?H (NEC)
NEGATIVE VOLTAGE REGULATOR (1A)



- 5V	μA7905UC	FS7905	μPC7905H
- 6V	μA7906UC		
- 8V	μA7908UC		μPC7908H
-12V	μA7912UC		μPC7912H
-15V	μA7915UC		μPC7915H
-18V	μA7918UC		μPC7918H
-24V	μA7924UC		μPC7924H

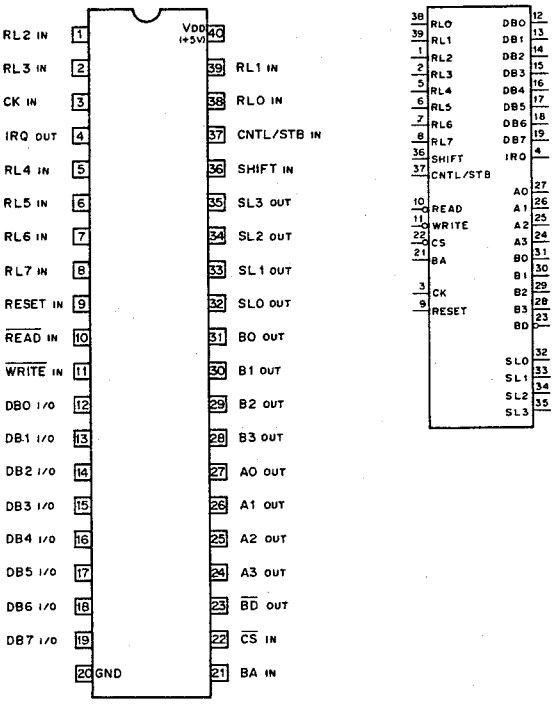
uPD5101LC-1 (NEC) (ACCESS TIME = 450 nS)
C-MOS 1024-BIT(256x4) STATIC RAM
— TOP VIEW —



INPUTS				OUTPUTS	FUNCTION
CE1	CE2	OD	W/R	DO	
1	X	X	X	HIGH Z	NOT SELECTED
X	0	X	X	HIGH Z	NOT SELECTED
X	X	1	1	HIGH Z	OUTPUT DISABLE
0	1	1	0	HIGH Z	WRITE
0	1	0	0	DI	WRITE
0	1	0	1	DENTERED	READ

0 : LOW LEVEL
1 : HIGH LEVEL
X : DON'T CARE
HIGH Z : HIGH IMPEDANCE

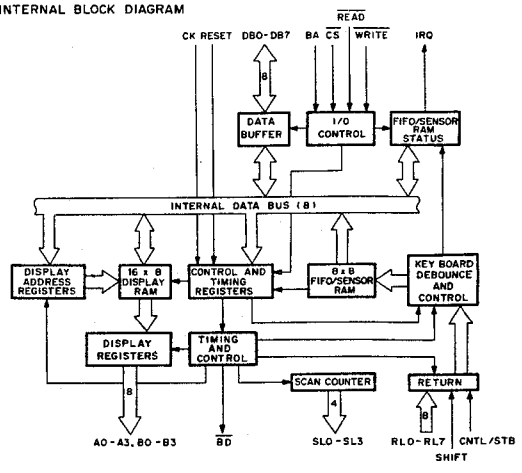
uPD8279C-5 (NEC)
N-MOS PROGRAMMABLE KEYBOARD/DISPLAY CONTROLLER
— TOP VIEW —

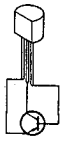


PIN NAMES

CK	; CLOCK
RESET	; RESET
$\overline{CS}$	; CHIP SELECT
$\overline{READ}$	; READ
$\overline{WRITE}$	; WRITE
BA	; BUFFER ADDRESS
IRQ	; INTERRUPT REQUEST
SL0-SL3	; SCAN LINES
RL0-RL7	; RETURN LINES
SHIFT	; SHIFT
CNTL/STB	; CONTROL/STROBE
A0-A3	; DISPLAY(A) OUTPUT
B0-B3	; DISPLAY(B) OUTPUT
$\overline{BD}$	; BLANK DISPLAY OUTPUT
DB0-DB7	; DATA BUS

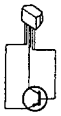
INTERNAL BLOCK DIAGRAM



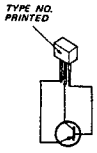


2SA1005
2SA1015
2SA733
2SA844

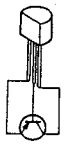
2SA1026



2SA1048
2SA1115



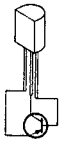
2SA1175
2SA1175F



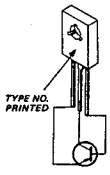
2SA1206

BOTTOM VIEW

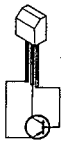
2SA530H
2SA711



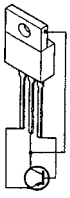
2SA772
2SA773
2SB739
2SB740



2SB649
2SB649A

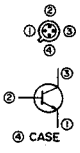


2SB733
2SB734

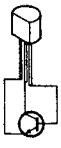


2SB856

BOTTOM VIEW

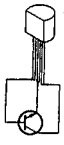


2SC1275

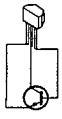


2SC1363
2SC1364
2SC2878
2SC641K
2SC945

2SC1636
2SC403C
2SC634A

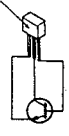


2SC2009
2SC2011



2SC2458
2SC2603
2SC2669
2SC2724
2SC403SP

TYPE NO
PRINTED

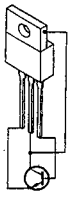


2SC2785
2SC2787

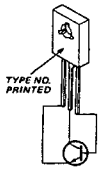
2SC2901

BOTTOM VIEW

2SC689H



2SC1061
2SD1134
2SD880

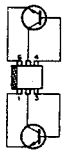


2SD669
2SD669A
2SD882

2SD773
2SD774

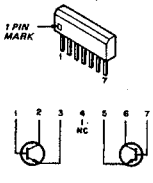
2SD788
2SD789

TOP VIEW



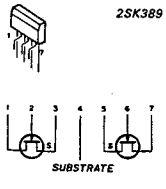
2SC1963

2SC2291

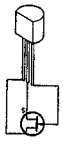


2SC2771

2SK240



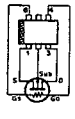
2SK389



2N5457
2SK152
2SK43
2SK523

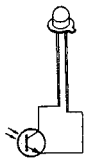
J175

TOP VIEW



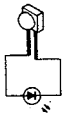
TX429M

TPS601-B

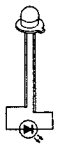


GL-5HD5 : RED

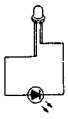
LN35BP ; GREEN



SE301A ; INFRARED

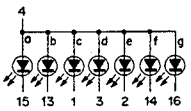


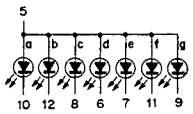
TLO124 ; ORANGE

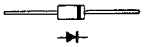


TOP VIEW

TLR-321 ; RED







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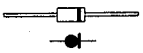
1S1555
1S1587
1S2076
1S2473
1SS119
1SS133
1SS148
ERB12-02RK
GP08
QSCH-1754
SI801-02
US1035

10YD ? ?



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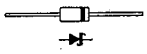
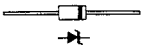
1SS97
1SS99
ERB81-004



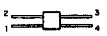
1S251
RD??E
RD??EB



FC53M

TOP VIEW

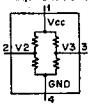
DM208



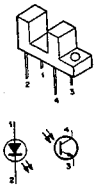
– Equivalent Circuit –

DM211

Magneto-Sensing Element
– Equivalent Circuit –



PS4005



SECTION 18
PRINTED WIRING BOARD AND SCHEMATIC DIAGRAM

PRINTED CIRCUIT BOARDS

The circuit information is provided below.

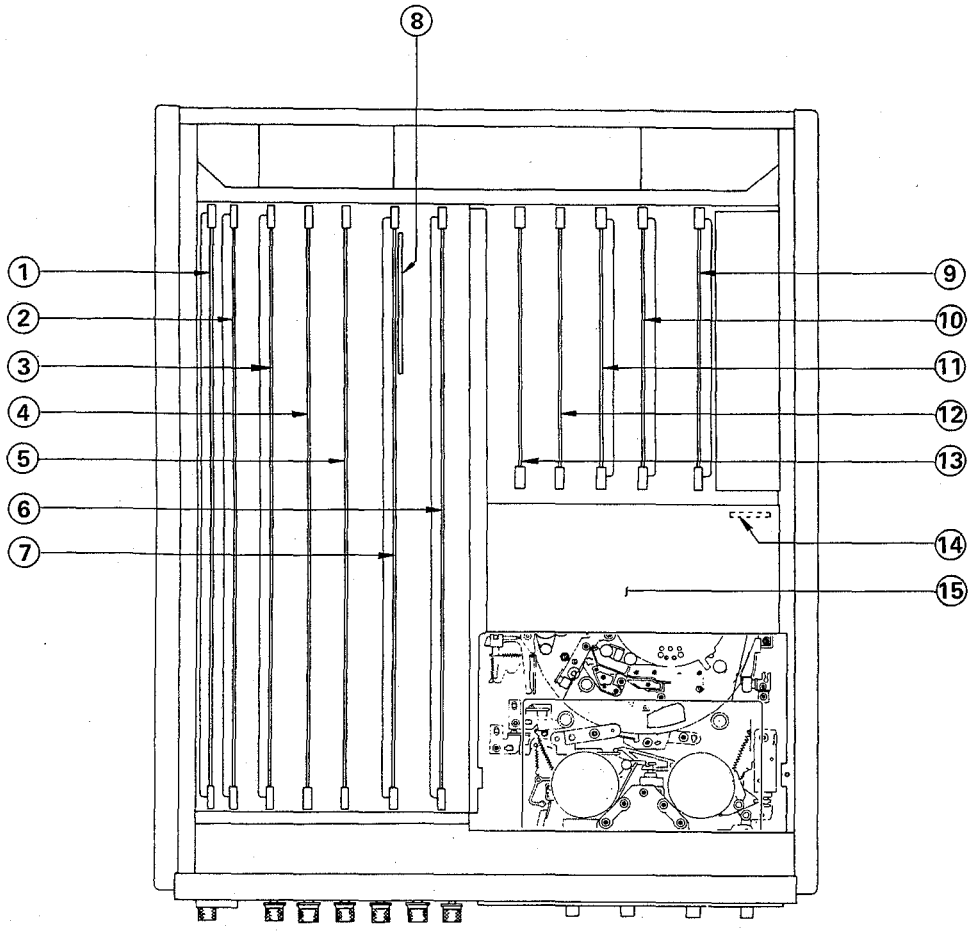
System	Board	Circuit function
Video	RP-15P	REC/PB amplifier
	YC-14S	Y/C modulator and demodulator
	DU-73	RF AGC
	SD-9	Reference sync generator
	SD-8	Burst V axis alternator
	BC-5	Blanking switcher
	CC-15P	Chroma compressor
	CK-16PS	Clock generator
	DEC-13	YC separator
	DEC-14	Decoder
	EN-34	Encoder
	RE-10	Rotary erase
Audio	AU-45	Audio system
	AU-46	Audio system
	BC-6	Blanking switcher
	BF-7	Audio buffer
	DR-21P	Bias erase osc
	HP-11	Headphones jack
	VR-10	Level control
Servo	SV-55P	Servo system
	SV-60	Servo system
	RD-2	Reel driver
	DE-11	Reel FG
	DU-53	Reel FG amplifier
Time code	DR-21P	Time code REC/PB
	TC-28P	Time code generator and reader
TBC	MY-17	Video TBC
	PR-48PS	Video TBC
	CK-14S	Video TBC
	CP-74S	TBC control panel

System	Board	Circuit function
System control	SY-4	System control
	MS-12	Miss-recording switch (photo-transistor)
	KY-45	Key panel
	KY-47	Select switch
	PT-9	Power transistor
	DP-31	Time counter display
	PC-9	Search dial
	PC-14	Search dial
	PD-22	Pinch solenoid
	PH-16	Tape roll sensor (photo-transistor)
	LE-19	Tape roll sensor (LED)
	RM-24	Remote connector
	SS-8	Tape beginning sensor Tape end sensor
	TR-18	Tape tension sensor
	SW-6	Select switch
	SW-7	Select switch
	SW-8	Select switch
	SW-13	Select switch
	TE-2	Threading/Unthreading end detector
	DR-21P	Driver
	LM-4	Threading motor
Power	AC-44	Line filter
Other	MB-49S	Mother board
	MB-50	Mother board (for video and audio)
	MB-52	Mother board (for DR-21P and TC-28P)
	MB-73S	Mother board (for TBC)
	PC-17	Cassette-up compartment
	PC-18	Cassette-up compartment
	CL-7	Cassette-up compartment

System	Board	Circuit function
Other	CP-61	Input amplifier
	CP-62	Relay board for input video
	HE-5	Relay board
	EX-35	Extension board
	EX-36	Extension board
	EX-42	Extension board

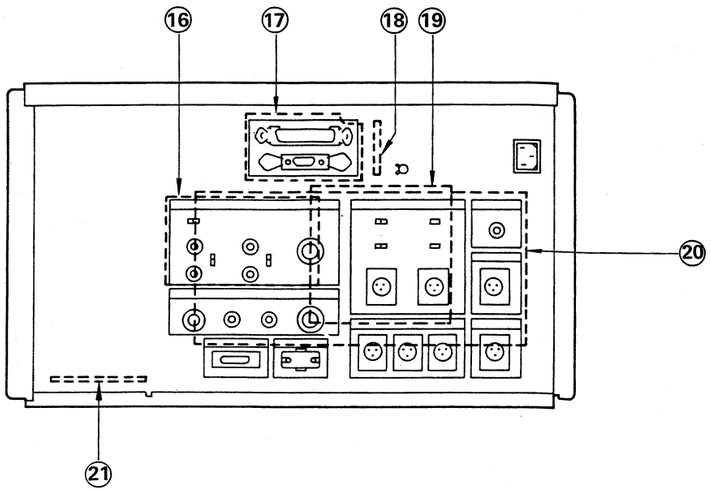
LOCATION OF THE PRINTED CIRCUIT BOARD

<TOP VIEW>

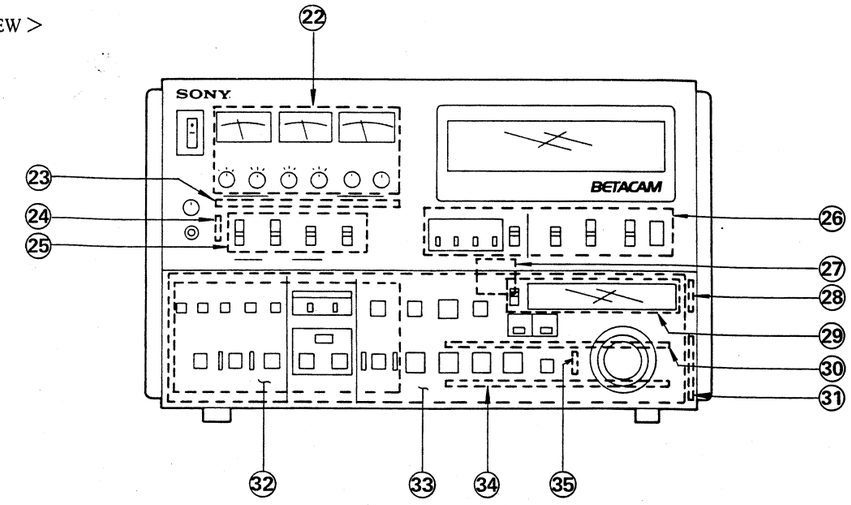


① CK-14S board
② MY-17 board
③ PR-48PS board
④ EN-34 board
⑤ YC-14S board
⑥ SY-4 board
⑦ SV-55P board
⑧ SV-60 board
⑨ AU-46 board
⑩ AU-45 board
⑪ DEC-13 board
⑫ DEC-14 board
⑬ CC-15P board
⑭ RE-10 board
⑮ RP-15P board

<REAR VIEW>

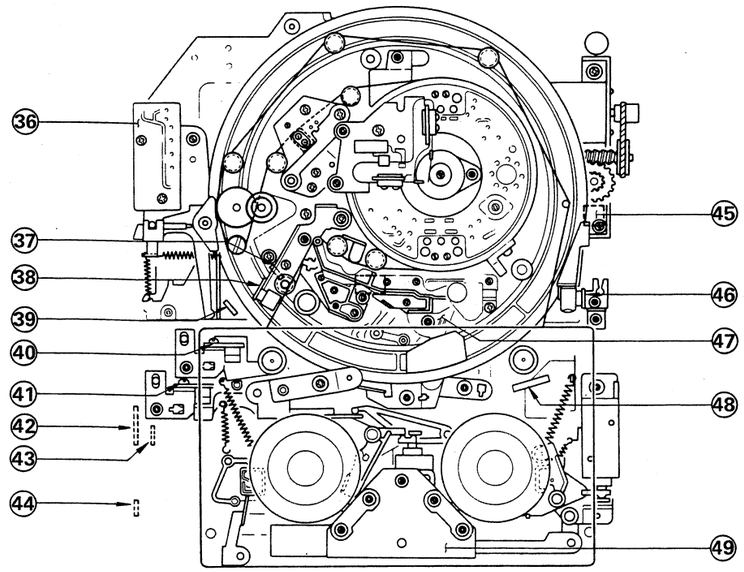


<FRONT VIEW>



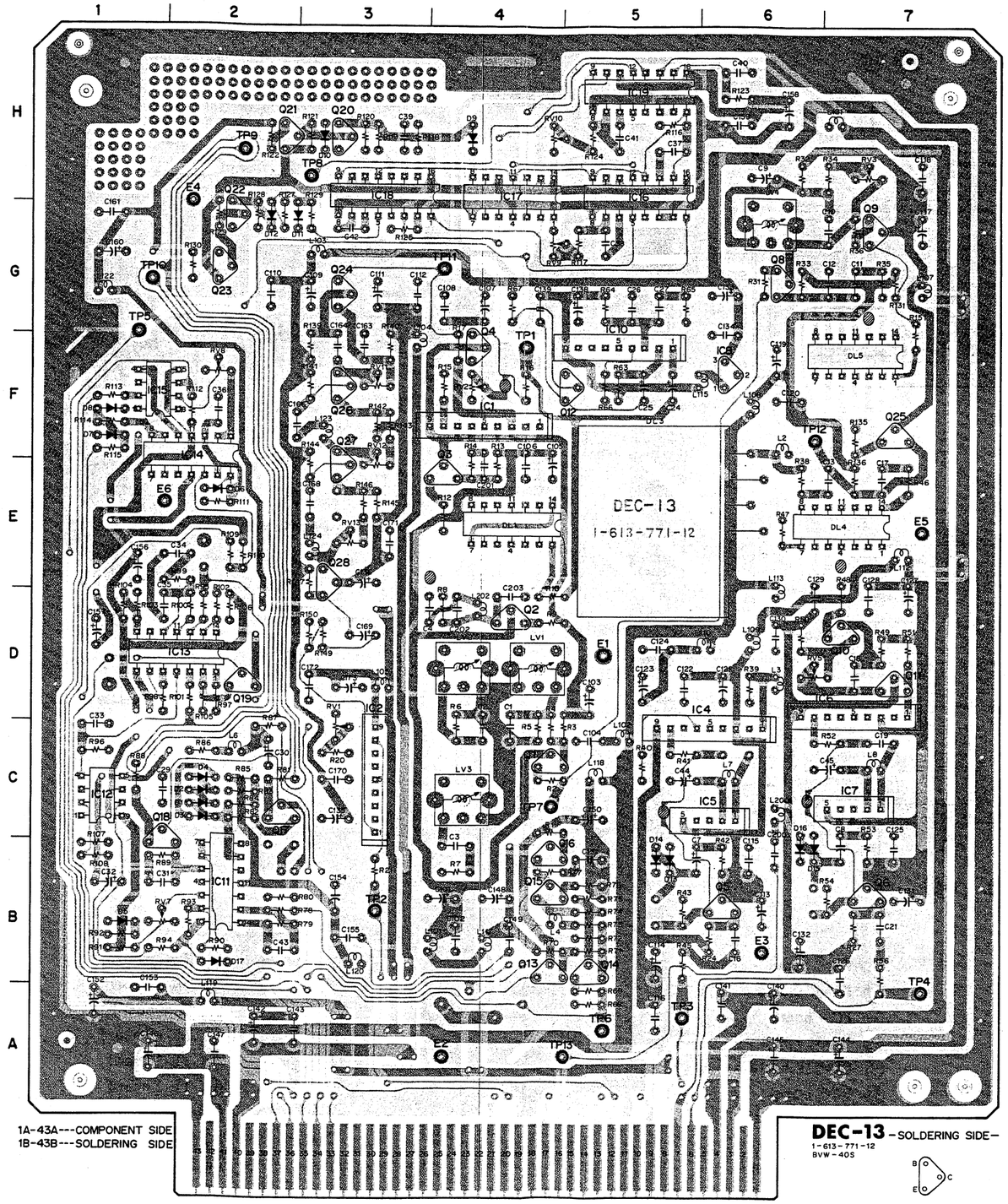
16 CP-62 board
17 RM-24 board
18 AC-44 board
19 SD-9 board
20 CP-61 board
21 BC-6 board
22 BF-7 board
23 VR-10 board
24 HP-11 board
25 SW-6 board
26 SW-7 board
27 DU-53 board
28 PC-9 board
29 DP-31 board
30 DR-21P board
31 BC-5 board
32 CP-74S board
33 KY-45 board
34 TC-28P board
35 PC-14 board

<TOP VIEW>



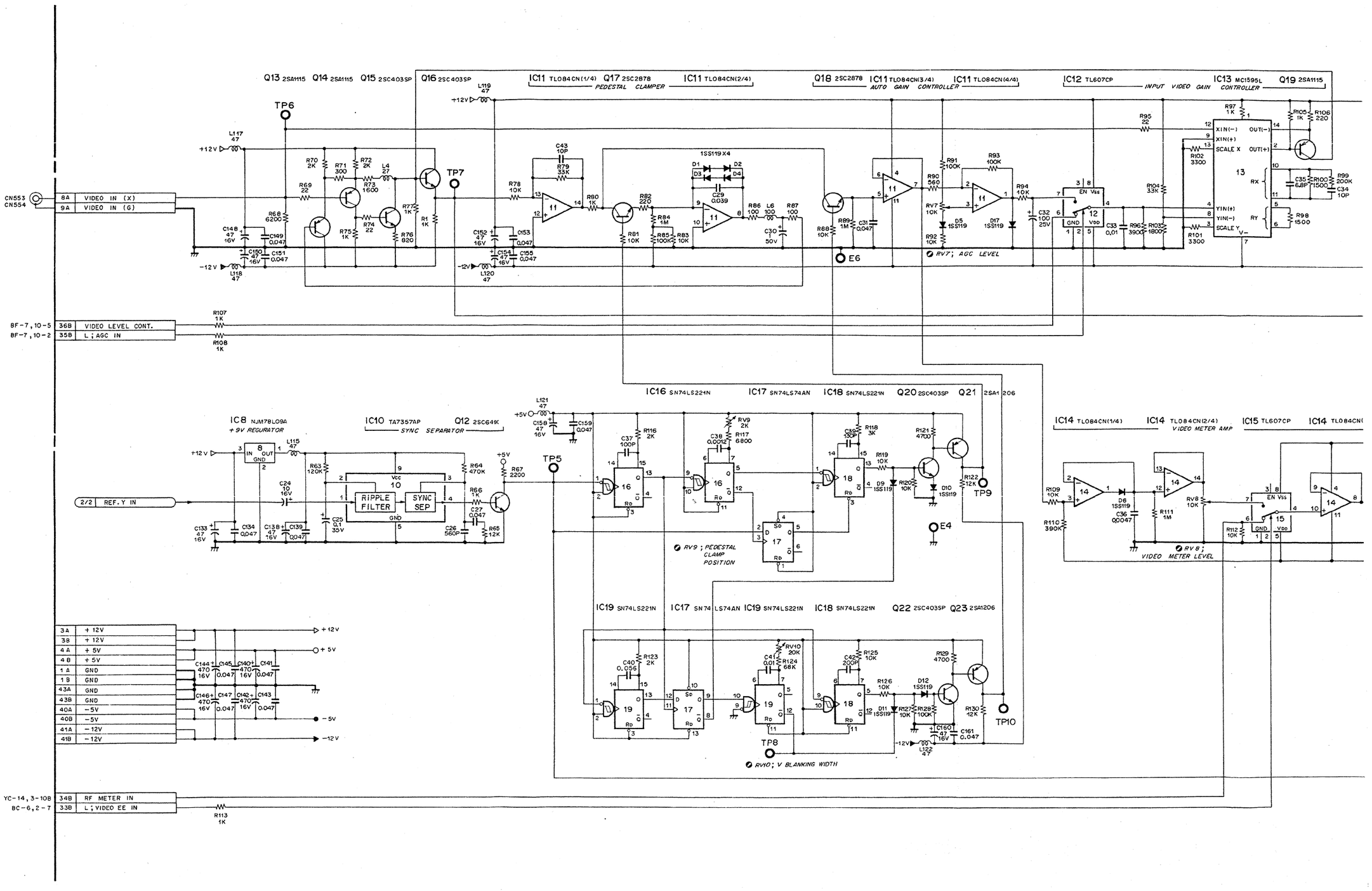
36 PD-22 board
37 PH-16 board
38 SS-8 board
39 LE-19 board
40 TE-2 board
41 TE-2 board
42 CL-7 board (cassette-up compartment)
43 PC-18 board (cassette-up compartment)
44 PC-17 board (cassette-up compartment)
45 LM-4 board
46 SS-8 board
47 TR-18 board
48 MS-12 board
49 DE-11 board

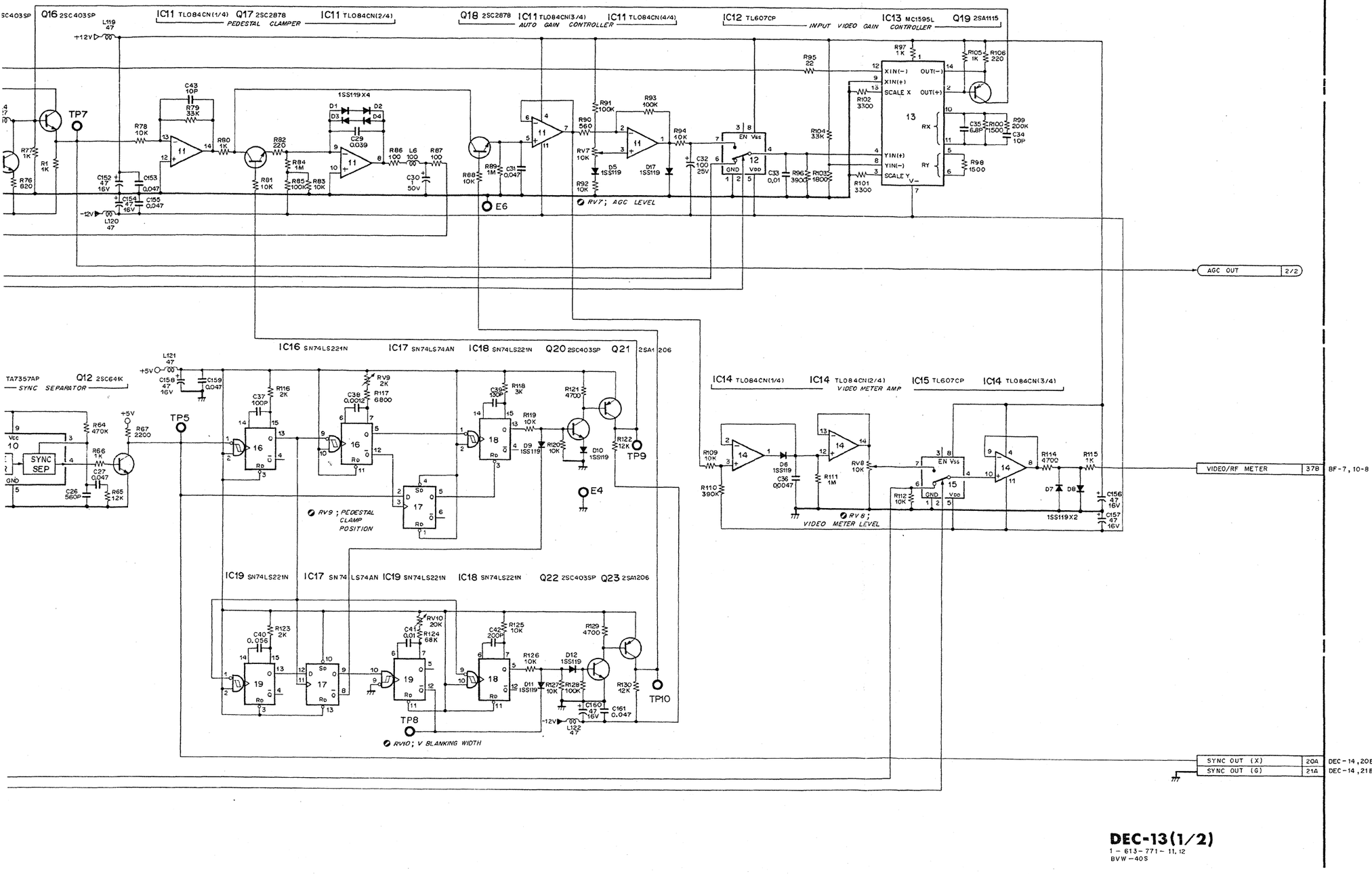
DEC-13 (Y/C SEPARATOR)



D1	C - 2	RV1	C - 3
D2	C - 2	RV2	F - 4
D3	C - 2	RV3	H - 7
D4	C - 2	RV5	D - 6
D5	B - 1	RV7	B - 1
D6	E - 2	RV8	F - 2
D7	F - 1	RV9	G - 4
D8	F - 1	RV10	H - 4
D9	H - 4	RV11	F - 3
D10	H - 3	RV12	F - 3
D11	G - 3	RV13	E - 3
D12	G - 2		
D13	B - 5	TP1	F - 4
D14	B - 5	TP2	B - 3
D15	B - 6	TP3	A - 5
D16	B - 6	TP4	A - 7
D17	B - 2	TP5	G - 1
		TP6	A - 5
DL1	E - 4	TP7	C - 4
DL3	E - 5	TP8	H - 3
DL4	E - 7	TP9	H - 2
DL5	F - 7	TP10	G - 1
		TP11	G - 4
E1	D - 5	TP12	F - 6
E2	A - 4	TP13	A - 5
E3	B - 6		
E4	H - 2		
E5	E - 7		
E6	E - 1		
IC1	F - 4		
IC2	C - 3		
IC4	C - 6		
IC5	C - 6		
IC6	D - 7		
IC7	C - 7		
IC8	F - 6		
IC10	F - 5		
IC11	B - 2		
IC12	C - 1		
IC13	D - 2		
IC14	F - 2		
IC15	F - 1		
IC16	H - 5		
IC17	H - 4		
IC18	H - 3		
IC19	H - 5		
LV1	D - 4		
LV2	D - 4		
LV3	C - 4		
LV4	G - 6		
Q1	C - 4		
Q2	D - 4		
Q3	E - 4		
Q4	F - 4		
Q5	B - 6		
Q6	B - 7		
Q8	G - 6		
Q9	G - 7		
Q10	D - 7		
Q11	D - 7		
Q12	F - 5		
Q13	B - 4		
Q14	B - 5		
Q15	B - 4		
Q16	B - 4		
Q17	C - 2		
Q18	C - 1		
Q19	D - 2		
Q20	H - 3		
Q21	H - 2		
Q22	G - 2		
Q23	G - 2		
Q24	G - 3		
Q25	F - 7		
Q26	F - 3		
Q27	E - 3		
Q28	E - 3		

DEC-13 (1/2) (Y/C SEPARATOR)

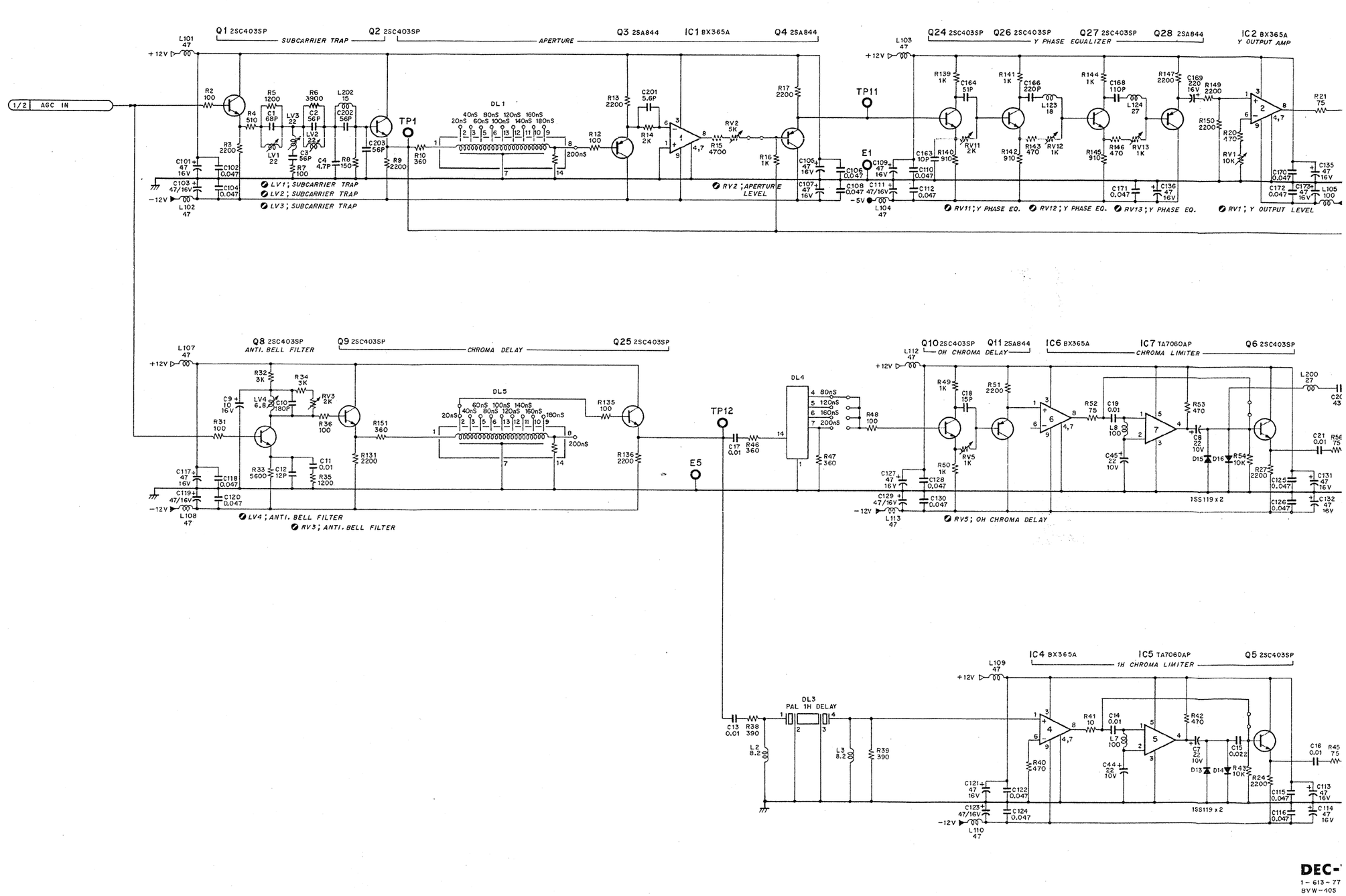




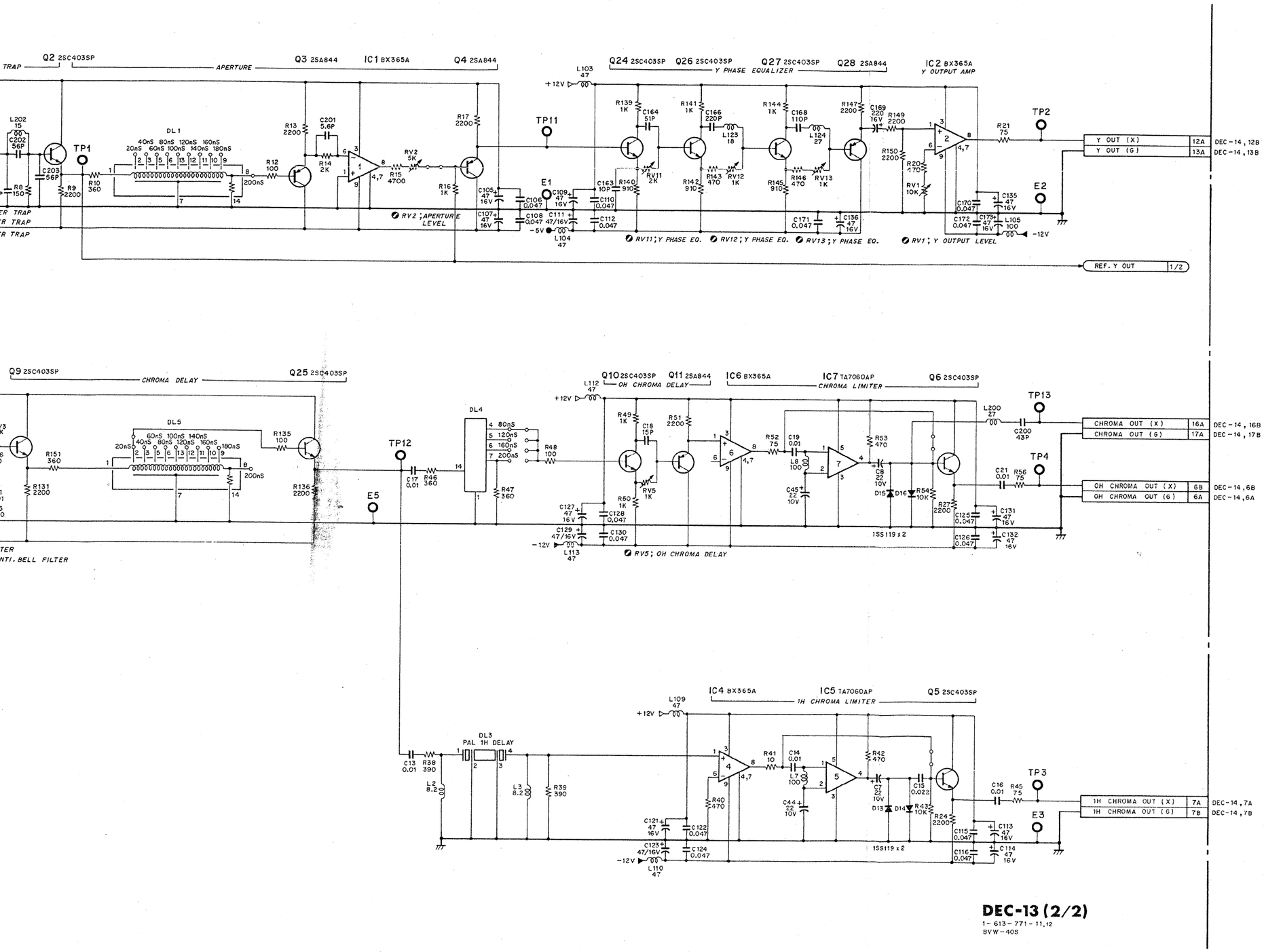
DEC-13(1/2)
1-613-771-11, 12
BVW-40S

DEC-13 (2/2) DEC-13 (2/2)

DEC-13 (2/2) (Y/C SEPARATOR)



DEC-
1-613-77
BVW-40S

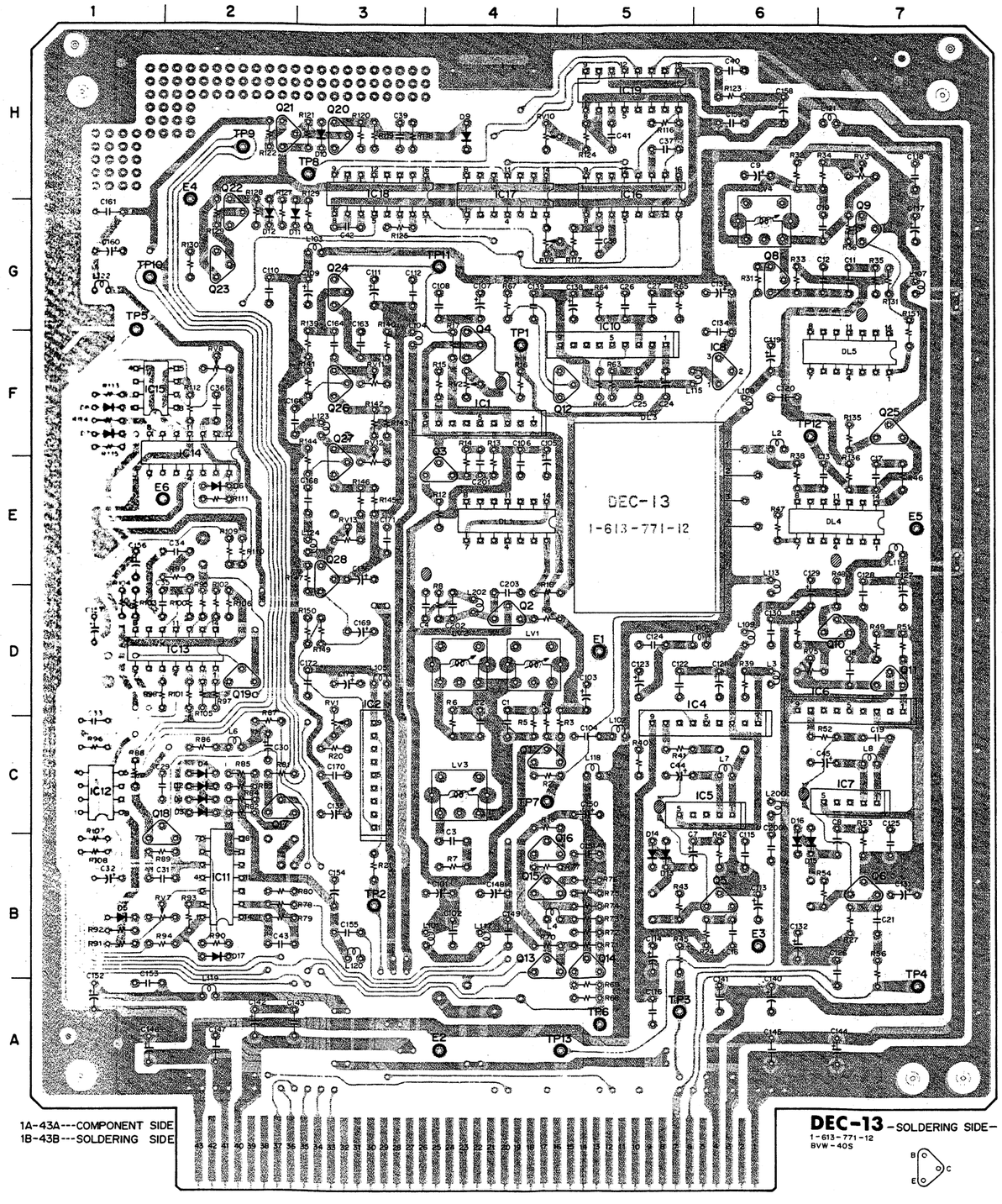


DEC-13 (2/2)

1-613-771-11,12

8VW-40S

DEC-13 (Y/C SEPARATOR)



D1	C - 2	RV1	C - 3
D2	C - 2	RV2	F - 4
D3	C - 2	RV3	H - 7
D4	C - 2	RV5	D - 6
D5	B - 1	RV7	B - 1
D6	E - 2	RV8	F - 2
D7	F - 1	RV9	G - 4
D8	F - 1	RV10	H - 4
D9	H - 4	RV11	F - 3
D10	H - 3	RV12	F - 3
D11	G - 3	RV13	E - 3
D12	G - 2		
D13	B - 5	TP1	F - 4
D14	B - 5	TP2	B - 3
D15	B - 6	TP3	A - 5
D16	B - 6	TP4	A - 7
D17	B - 2	TP5	G - 1
		TP6	A - 5
DL1	E - 4	TP7	C - 4
DL3	E - 5	TP8	H - 3
DL4	E - 7	TP9	H - 2
DL5	F - 7	TP10	G - 1
		TP11	G - 4
E1	D - 5	TP12	F - 6
E2	A - 4	TP13	A - 5
E3	B - 6		
E4	H - 2		
E5	E - 7		
E6	E - 1		
IC1	F - 4		
IC2	C - 3		
IC4	C - 6		
IC5	C - 6		
IC6	D - 7		
IC7	C - 7		
IC8	F - 6		
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IC19	H - 5		
LV1	D - 4		
LV2	D - 4		
LV3	C - 4		
LV4	G - 6		
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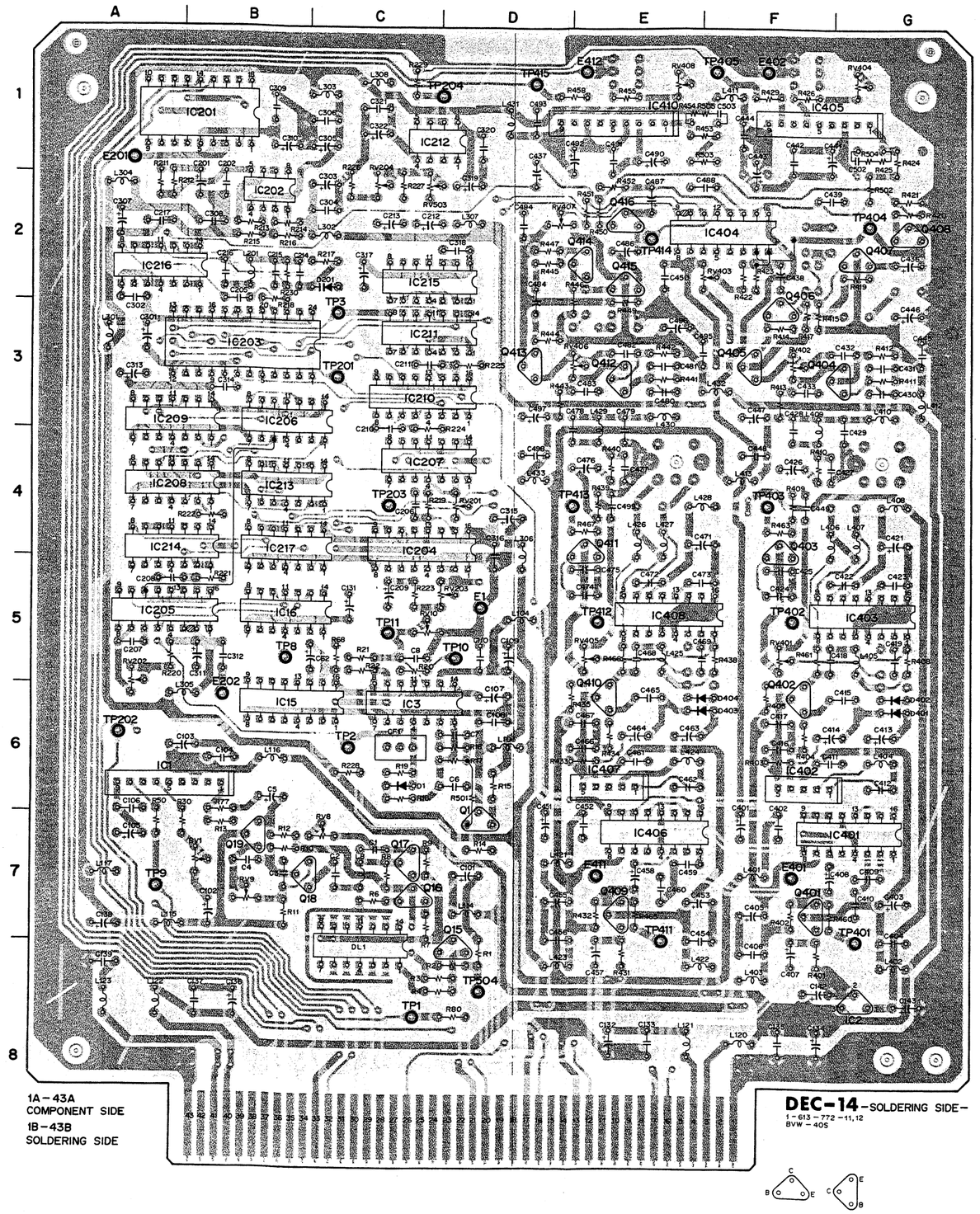
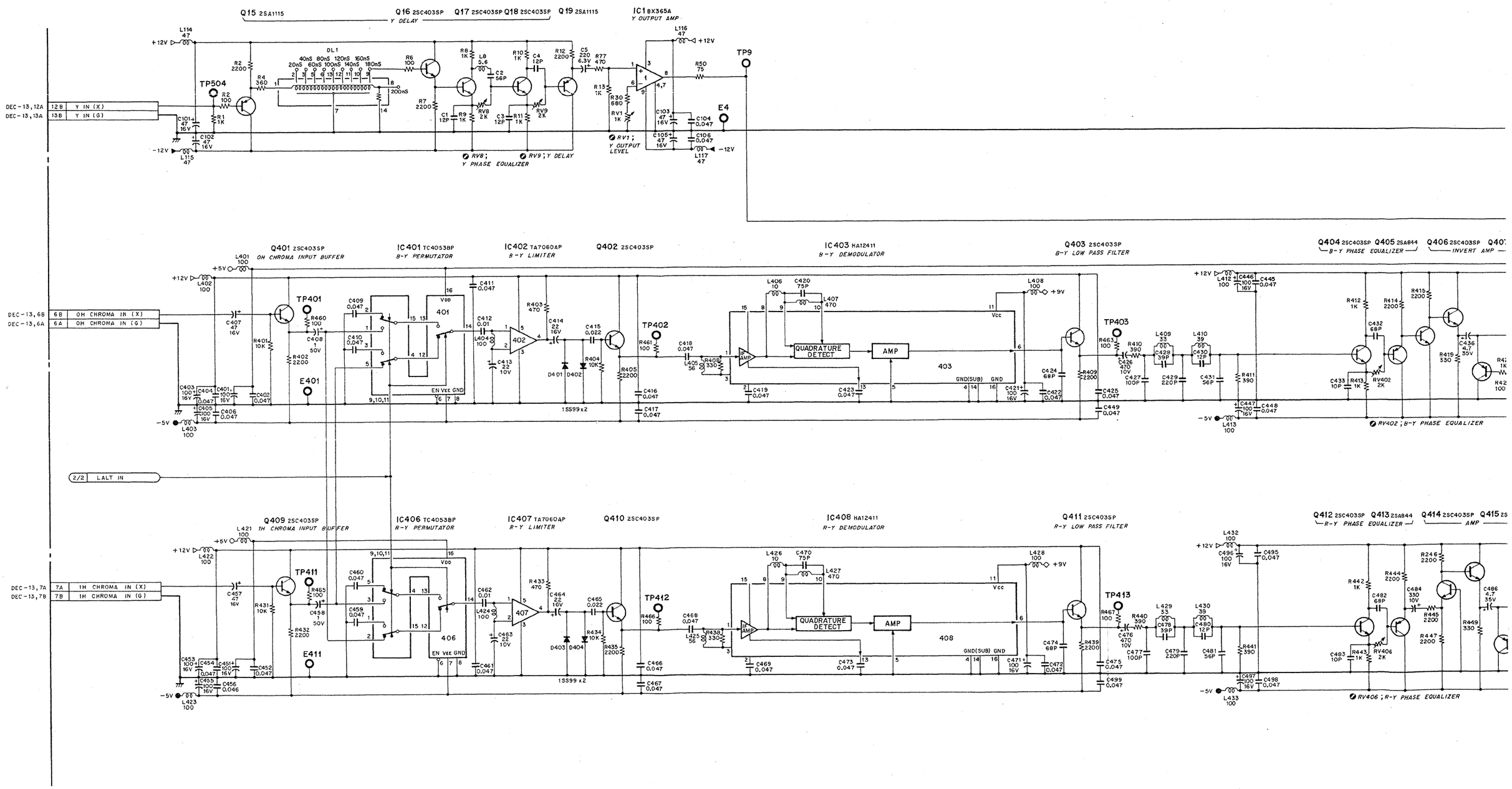
Q2	D - 4		
Q3	E - 4		
Q4	F - 4		
Q5	B - 6		
Q6	B - 7		
Q8	G - 6		
Q9	G - 7		
Q10	D - 7		
Q11	D - 7		
Q12	F - 5		
Q13	B - 4		
Q14	B - 5		
Q15	B - 4		
Q16	B - 4		
Q17	C - 2		
Q18	C - 1		
Q19	D - 2		
Q20	H - 3		
Q21	H - 2		
Q22	G - 2		
Q23	G - 2		
Q24	G - 3		
Q25	F - 7		
Q26	F - 3		
Q27	E - 3		
Q28	E - 3		

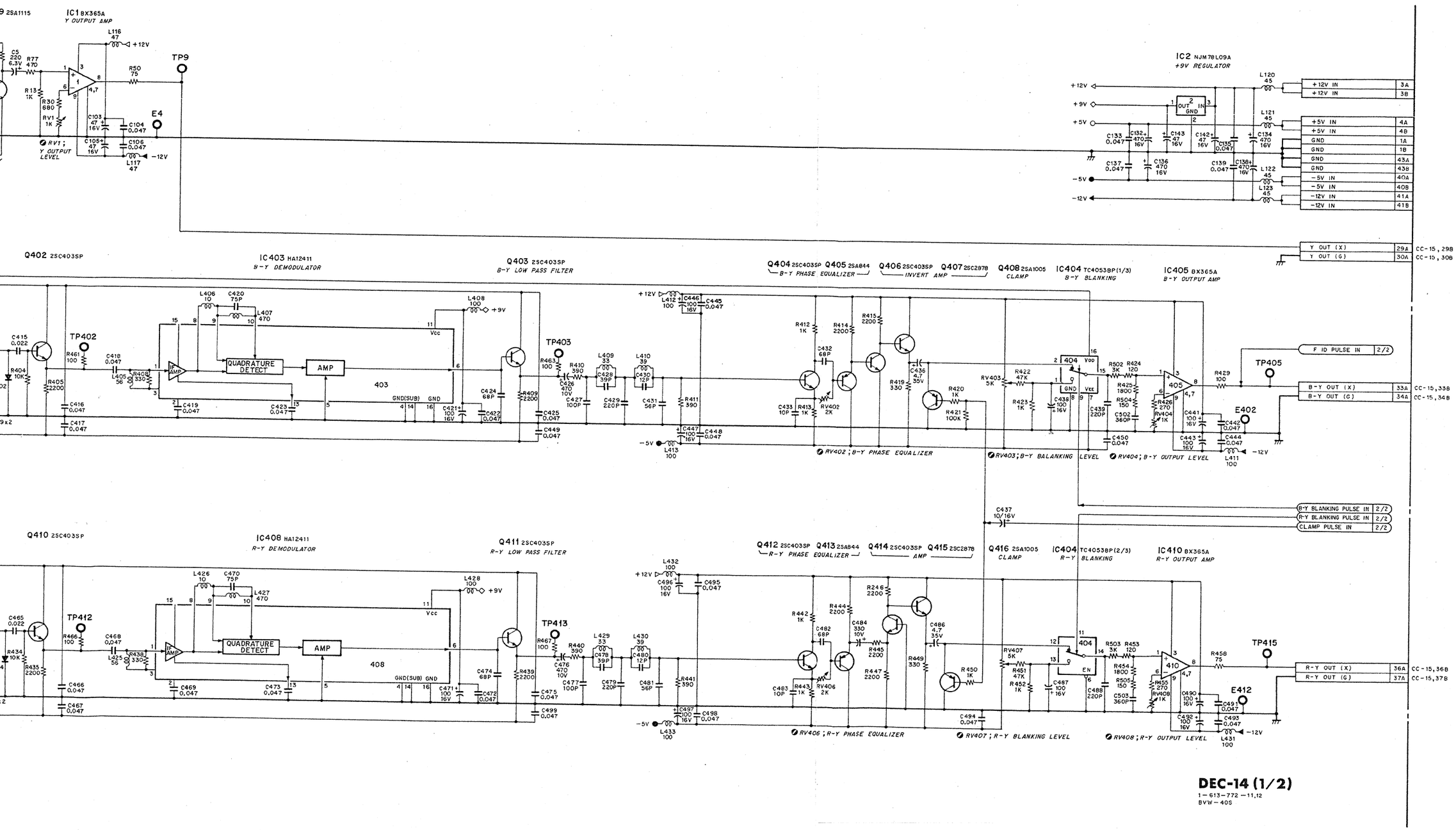
DEC-14 (VIDEO DECODER)



CF1	C - 6	RV1	A - 7
		RV8	C - 7
D1	C - 6	RV9	B - 7
D201	C - 2	RV10	D - 5
D401	G - 6	RV201	D - 4
D402	G - 6	RV202	A - 6
D403	F - 6	RV203	D - 5
D404	F - 6	RV204	C - 2
		RV401	F - 5
DL1	C - 8	RV402	F - 3
		RV403	E - 2
E1	D - 5	RV404	G - 1
E201	A - 1	RV405	D - 5
E202	B - 6	RV406	D - 3
E401	F - 7	RV407	D - 2
E402	F - 1	RV408	E - 1
E411	E - 7	RV503	D - 2
E412	E - 1		
		TP1	C - 8
IC1	A - 6	TP2	C - 6
IC2	G - 8	TP3	C - 3
IC3	C - 6	TP8	B - 5
IC15	B - 5	TP9	A - 7
IC16	B - 5	TP10	D - 5
IC201	A - 1	TP11	C - 5
IC202	B - 1	TP201	C - 3
IC203	A - 3	TP202	A - 6
IC204	C - 4	TP203	C - 4
IC205	A - 5	TP204	D - 1
IC206	B - 4	TP401	G - 8
IC207	C - 4	TP402	F - 5
IC208	A - 4	TP403	F - 4
IC209	A - 4	TP404	G - 2
IC210	C - 3	TP405	F - 1
IC211	C - 3	TP411	E - 8
IC212	C - 1	TP412	E - 5
IC213	B - 4	TP413	B - 4
IC214	A - 5	TP414	E - 2
IC215	C - 2	TP415	D - 1
IC216	A - 2	TP504	D - 8
IC217	B - 5		
IC401	G - 6	TH401	F - 1
IC402	F - 6	TH402	E - 1
IC403	G - 5		
IC404	F - 2		
IC405	G - 1		
IC406	E - 7		
IC407	D - 6		
IC408	E - 5		
IC410	D - 1		
Q1	D - 7		
Q15	D - 7		
Q16	C - 7		
Q17	C - 7		
Q18	B - 7		
Q19	B - 7		
Q401	F - 7		
Q402	F - 6		
Q403	F - 4		
Q404	G - 3		
Q405	F - 3		
Q406	F - 3		
Q407	G - 2		
Q408	G - 2		
Q409	E - 7		
Q410	E - 6		
Q411	D - 4		
Q412	E - 3		
Q413	D - 3		
Q414	E - 6		
Q415	E - 6		
Q416	E - 2		

DEC-14 (1/2) (VIDEO DECODER)



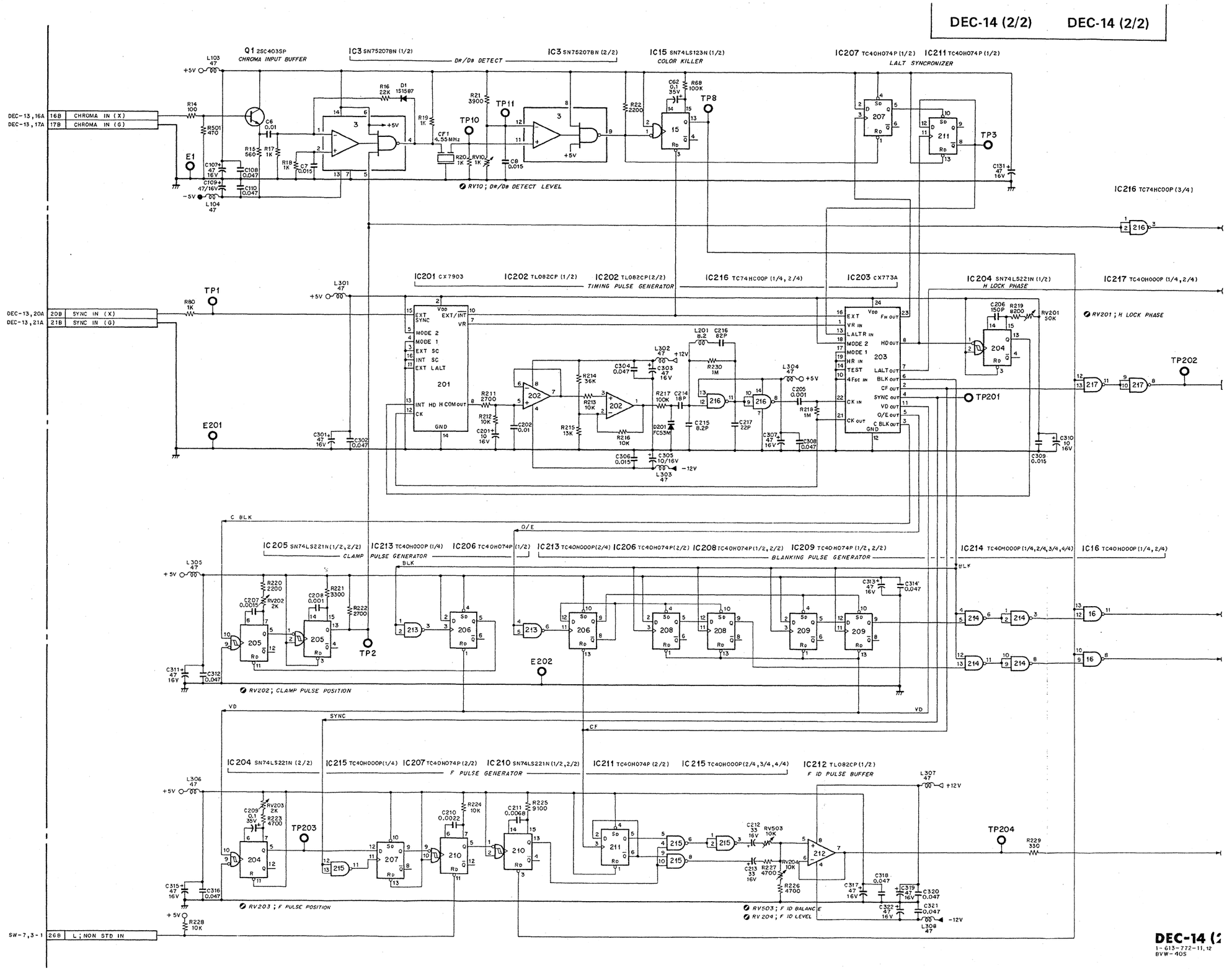


DEC-14 (1/2)

1-613-772-11,12

BVW-40S

DEC-14 (2/2) (VIDEO DECODER)



DEC-14 (2
1-613-772-11, 12
BVW-40S

Q1 2SC403SP
ROMA INPUT BUFFER

IC3 SN75207BN (1/2)
DR/DB DETECT
IC3 SN75207BN (2/2)

IC15 SN74LS123N (1/2)
COLOR KILLER

IC207 TC40H074P (1/2) IC211 TC40H074P (1/2)
LALT SYNCRONIZER

IC216 TC74HC00P (3/4)

IC201 CX7903 IC202 TL082CP (1/2) IC202 TL082CP(2/2) IC216 TC74HC00P (1/4, 2/4) IC203 CX773A
TIMING PULSE GENERATOR

IC204 SN74LS221N (1/2)
H LOCK PHASE

IC217 TC40H000P (1/4,2/4)

IC205 SN74LS221N(1/2,2/2) IC213 TC40H000P (1/4) IC206 TC40H074P (1/2) IC213 TC40H000P(2/4) IC206 TC40H074P(2/2) IC208 TC40H074P(1/2,2/2) IC209 TC40H074P (1/2, 2/2)
CLAMP PULSE GENERATOR
BLANKING PULSE GENERATOR

IC214 TC40H000P(1/4,2/4,3/4,4/4) IC16 TC40H000P(1/4,2/4)

IC204 SN74LS221N (2/2) IC215 TC40H000P(1/4) IC207 TC40H074P (2/2) IC210 SN74LS221N (1/2,2/2) IC211 TC40H074P (2/2) IC 215 TC40H000P(2/4,3/4,4/4) IC212 TL082CP (1/2)
F PULSE GENERATOR
F ID PULSE BUFFER

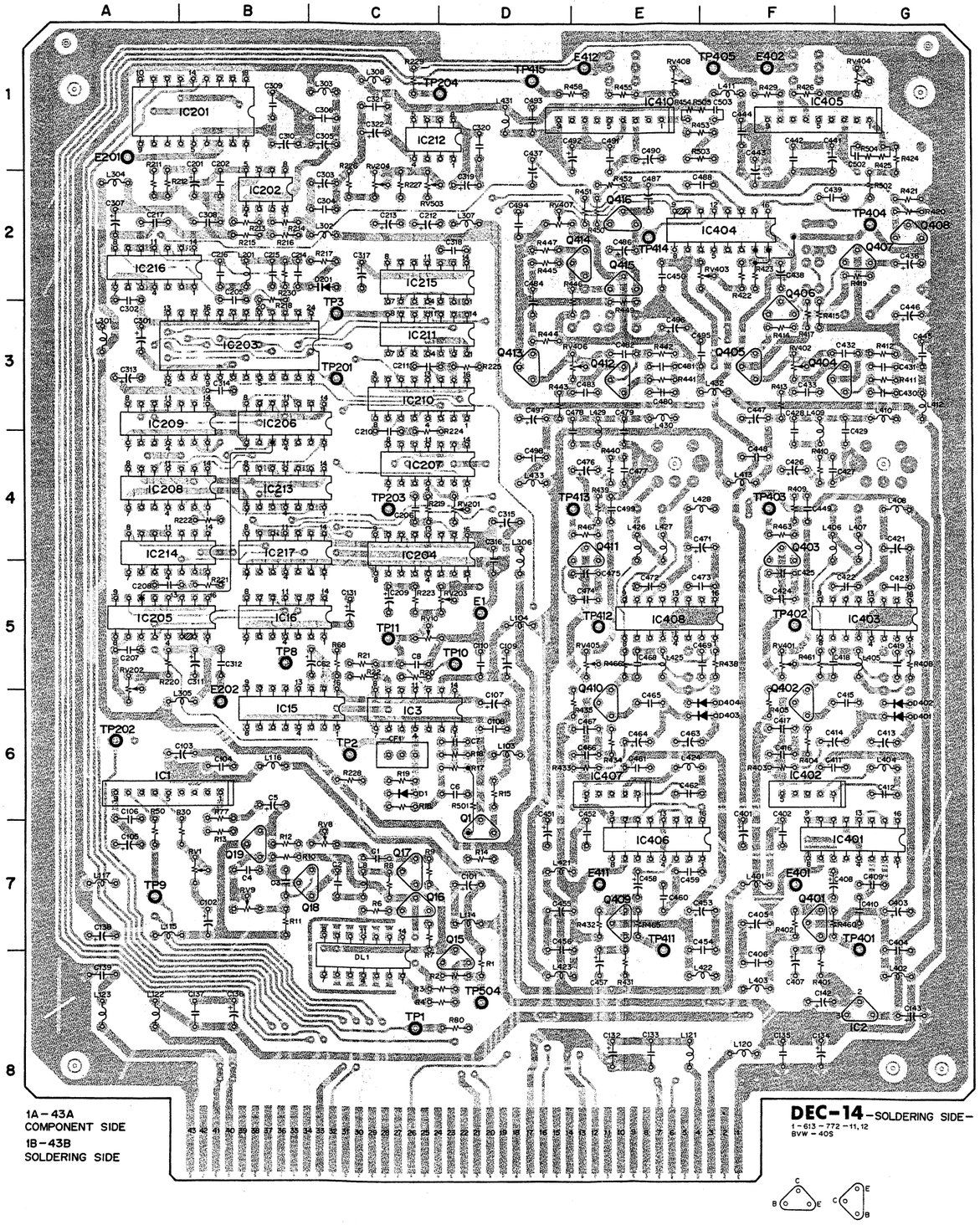
RV10 ; DR/DB DETECT LEVEL
RV201 ; H LOCK PHASE
RV202 ; CLAMP PULSE POSITION
RV203 ; F PULSE POSITION
RV503 ; F ID BALANCE
RV204 ; F ID LEVEL

CLAMP PULSE OUT 1/2
LALT OUT 1/2
COMPOSITE F OUT 32B SY-4,14-28B/TC-28,25A
R-Y BLANKING PULSE OUT 1/2
B-Y BLANKING PULSE OUT 1/2
F ID PULSE OUT 1/2

TP2 TP3 TP8 TP10 TP11 TP201 TP202 TP203 TP204 E202

DEC-14 (2/2)
1-613-772-11, 12
BVW-40S

DEC-14 (VIDEO DECODER)

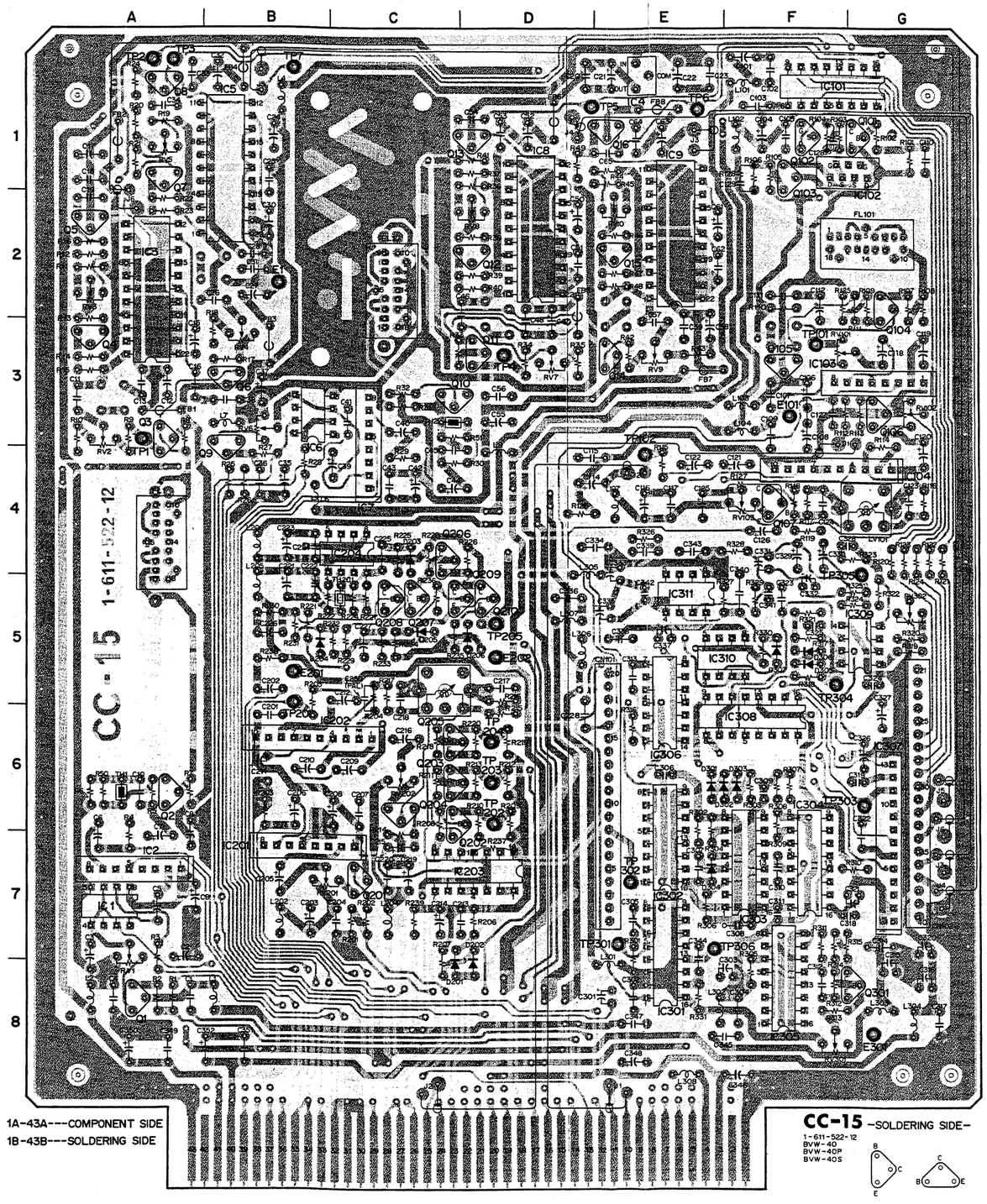


1A – 43A
COMPONENT SIDE
1B – 43B
SOLDERING SIDE

DEC-14 – SOLDERING SIDE –
t – 613 – 772 – 11, 12
BVW – 405

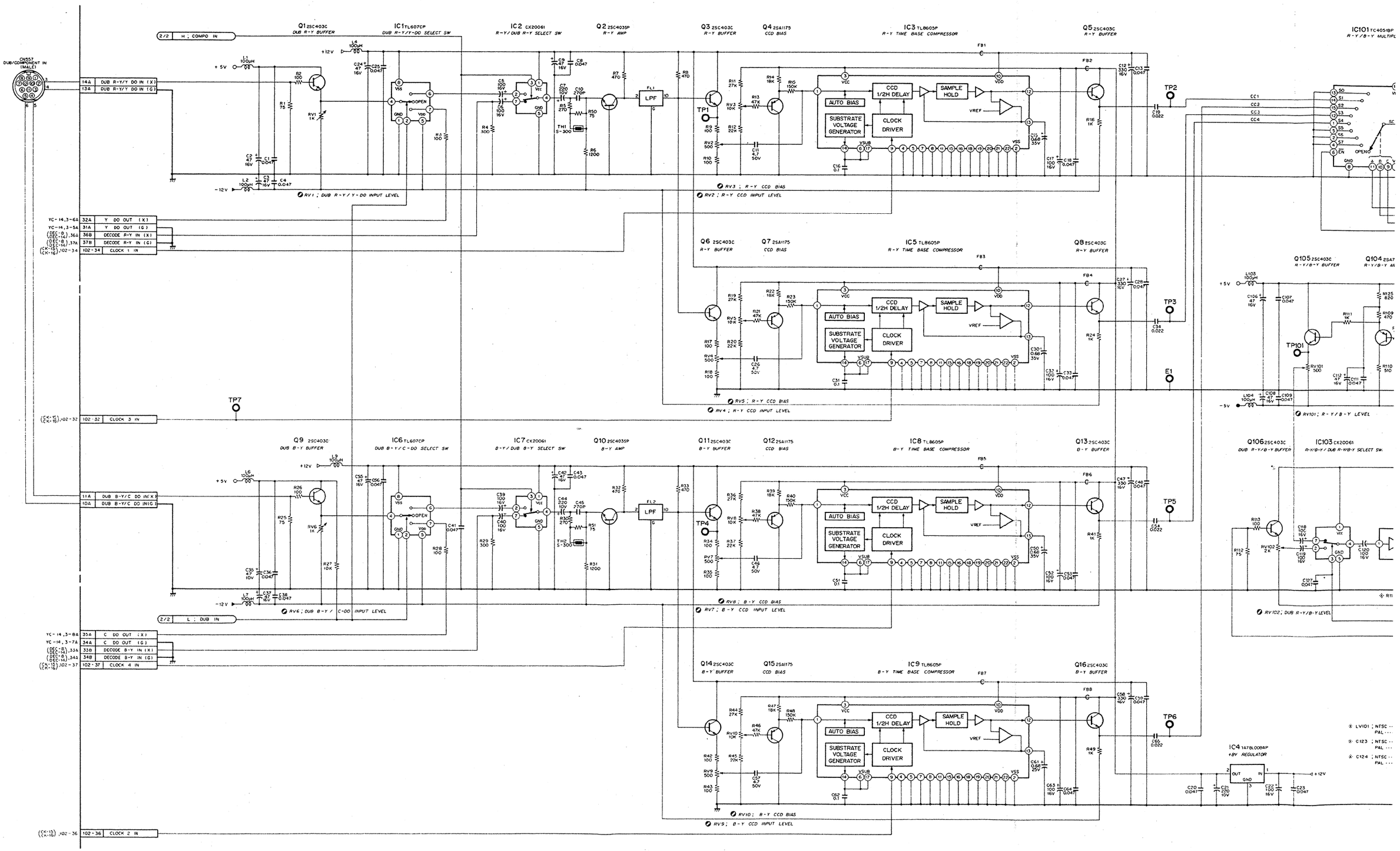
CF1	C - 6	RV1	A - 7
		RV8	C - 7
D1	C - 6	RV9	B - 7
D201	C - 2	RV10	D - 5
D401	G - 6	RV201	D - 4
D402	G - 6	RV202	A - 6
D403	F - 6	RV203	D - 5
D404	F - 6	RV204	C - 2
		RV401	F - 5
DL1	C - 8	RV402	F - 3
		RV403	E - 2
E1	D - 5	RV404	G - 1
E201	A - 1	RV405	D - 5
E202	B - 6	RV406	D - 3
E401	F - 7	RV407	D - 2
E402	F - 1	RV408	E - 1
E411	E - 7	RV503	D - 2
E412	E - 1		
		TP1	C - 8
IC1	A - 6	TP2	C - 6
IC2	G - 8	TP3	C - 3
IC3	C - 6	TP8	B - 5
IC15	B - 5	TP9	A - 7
IC16	B - 5	TP10	D - 5
IC201	A - 1	TP11	C - 5
IC202	B - 1	TP201	C - 3
IC203	A - 3	TP202	A - 6
IC204	C - 4	TP203	C - 4
IC205	A - 5	TP204	D - 1
IC206	B - 4	TP401	G - 8
IC207	C - 4	TP402	F - 5
IC208	A - 4	TP403	F - 4
IC209	A - 4	TP404	G - 2
IC210	C - 3	TP405	F - 1
IC211	C - 3	TP411	E - 8
IC212	C - 1	TP412	E - 5
IC213	B - 4	TP413	D - 4
IC214	A - 5	TP414	E - 2
IC215	C - 2	TP415	D - 1
IC216	A - 2	TP504	D - 8
IC217	B - 5		
IC401	G - 6	TH401	F - 1
IC402	F - 6	TH402	E - 1
IC403	G - 5		
IC404	F - 2		
IC405	G - 1		
IC406	E - 7		
IC407	D - 6		
IC408	E - 5		
IC410	D - 1		
Q1	D - 7		
Q15	D - 7		
Q16	C - 7		
Q17	C - 7		
Q18	B - 7		
Q19	B - 7		
Q401	F - 7		
Q402	F - 6		
Q403	F - 4		
Q404	G - 3		
Q405	F - 3		
Q406	F - 3		
Q407	G - 2		
Q408	G - 2		
Q409	E - 7		
Q410	E - 6		
Q411	D - 4		
Q412	E - 3		
Q413	D - 3		
Q414	E - 6		
Q415	E - 6		
Q416	E - 2		

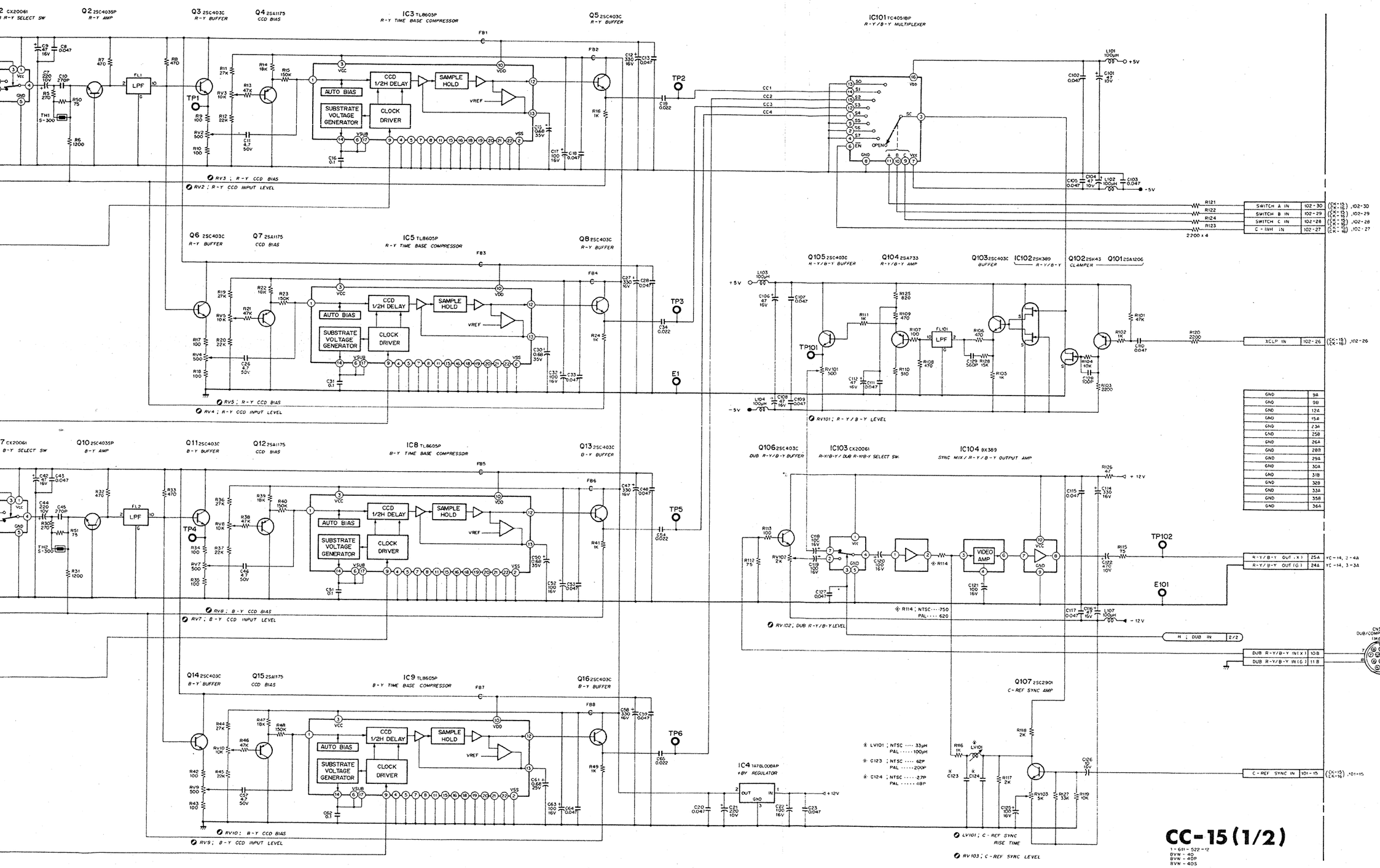
CC-15 (CHROMA TIME DIVISION MULTIPLEXER)



CN101	E - 6	RV1	A - 8
CN102	G - 7	RV2	A - 3
		RV3	A - 2
D201	C - 8	RV4	B - 3
D202	D - 8	RV5	A - 1
D203	C - 4	RV6	B - 3
D204	B - 5	RV7	D - 3
D205	C - 5	RV8	D - 2
D206	D - 5	RV9	E - 3
D301	E - 6	RV10	E - 2
D302	E - 6	RV101	F - 3
D303	F - 6	RV102	G - 3
D304	E - 7	RV103	F - 4
D305	F - 5	RV201	B - 7
D306	F - 5	RV202	C - 6
D307	F - 5	RV301	F - 8
		RV302	G - 5
E1	B - 2		
E101	F - 3	TH1	A - 6
E201	B - 5	TH2	C - 3
E202	D - 5	TH201	C - 5
E301	G - 8		
		TP1	A - 3
FL1	A - 4	TP2	A - 1
FL2	C - 2	TP3	A - 1
FL101	G - 2	TP4	D - 3
		TP5	D - 1
IC1	A - 7	TP6	E - 1
IC2	A - 7	TP7	B - 1
IC3	A - 2	TP101	F - 3
IC4	E - 1	TP102	E - 4
IC5	B - 1	TP201	B - 5
IC6	B - 3	TP202	D - 6
IC7	C - 4	TP203	D - 6
IC8	D - 2	TP204	D - 6
IC9	E - 2	TP205	D - 5
IC101	F - 1	TP301	E - 7
IC102	G - 1	TP302	E - 7
IC103	G - 3	TP303	G - 6
IC104	G - 4	TP304	F - 5
IC201	B - 7	TP305	G - 5
IC202	B - 6	TP306	E - 7
IC203	D - 7		
IC204	C - 4		
IC301	E - 8		
IC302	E - 7		
IC303	F - 7		
IC304	F - 7		
IC305	F - 8		
IC306	E - 6		
IC307	G - 6		
IC308	F - 6		
IC309	G - 5		
IC310	E - 5		
IC311	E - 5		
LV101	G - 4		
LV201	C - 5		
Q1	A - 8		
Q2	A - 6		
Q3	A - 3		
Q4	A - 3		
Q5	A - 2		
Q6	B - 3		
Q7	A - 1		
Q8	A - 1		
Q9	B - 4		
Q10	C - 3		
Q11	D - 3		
Q12	D - 2		
Q13	D - 1		
Q14	E - 3		
Q15	E - 2		
Q16	E - 1		
Q101	G - 1		
Q102	F - 1		
Q103	F - 1		
Q104	G - 2		
Q105	F - 3		
Q106	G - 3		
Q107	F - 4		
Q201	C - 7		
Q202	C - 6		
Q203	C - 6		
Q204	C - 6		
Q205	C - 6		
Q206	C - 4		
Q207	C - 5		
Q208	C - 5		
Q209	C - 5		
Q210	D - 5		
Q301	G - 8		

CC-15 (1/2) (CHROMA TIME DIVISION MULTIPLEXER)

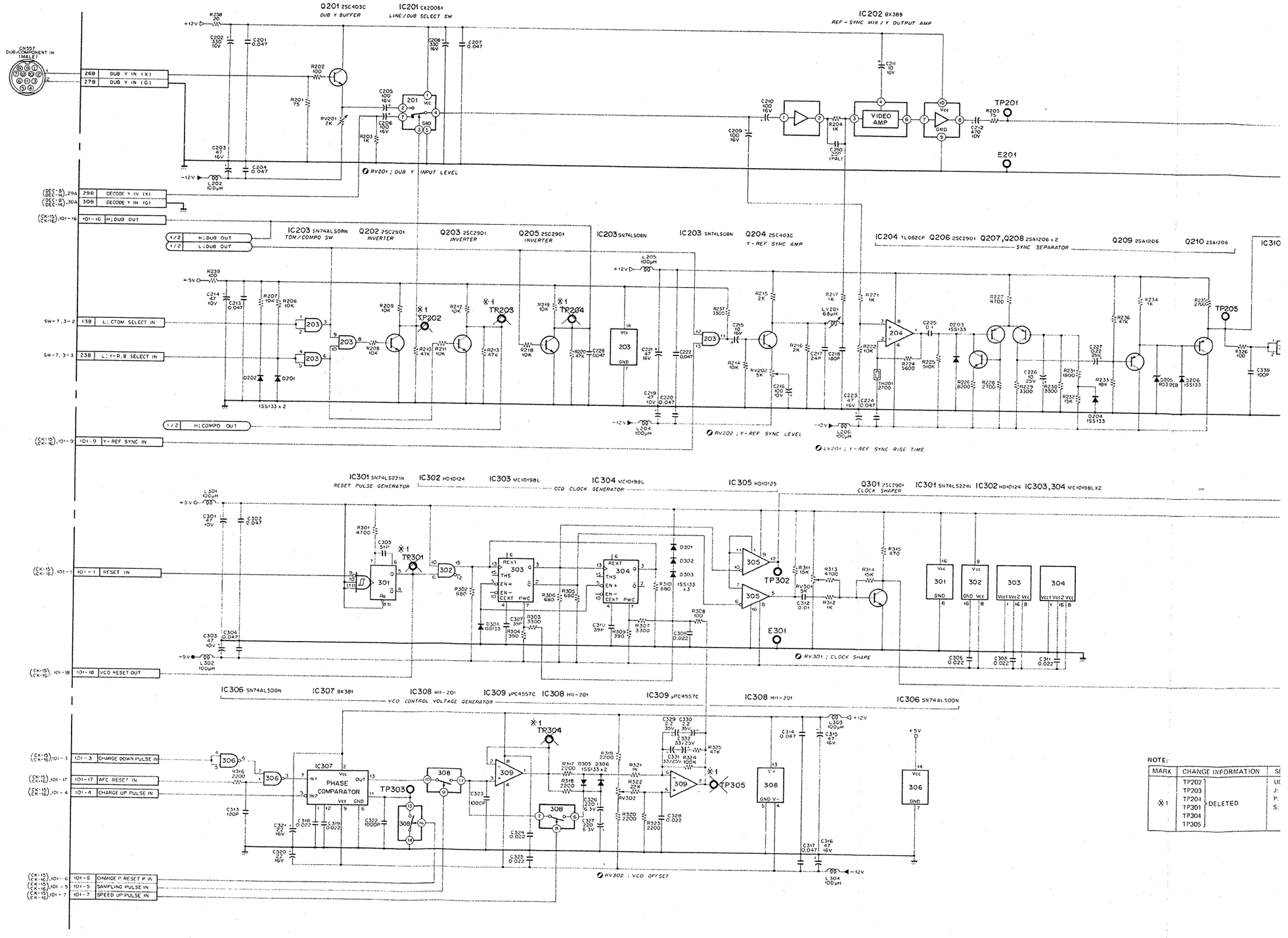



Q2 2SC4035P R-Y AMP
Q3 2SC403C R-Y BUFFER
Q4 2SA1175 CCD BIAS
IC3 TL8605P R-Y TIME BASE COMPRESSOR
Q5 2SC403C R-Y BUFFER
IC101 TC4051BP R-Y/B-Y MULTIPLEXER
LPF
AUTO BIAS
SUBSTRATE VOLTAGE GENERATOR
CCD 1/2H DELAY
CLOCK DRIVER
SAMPLE HOLD
VREF
VCC
VDD
VSUB
VSS
TP1
TP2
RV3 ; R-Y CCD BIAS
RV2 ; R-Y CCD INPUT LEVEL
Q6 2SC403C R-Y BUFFER
Q7 2SA1175 CCD BIAS
IC5 TL8605P R-Y TIME BASE COMPRESSOR
Q8 2SC403C R-Y BUFFER
TP3
RV5 ; R-Y CCD BIAS
RV4 ; R-Y CCD INPUT LEVEL
Q105 2SC403C R-Y/B-Y BUFFER
Q104 2SA733 R-Y/B-Y AMP
Q103 2SC403C BUFFER
IC102 2SK389 R-Y/B-Y CLAMPER
Q102 2SK43
Q101 2SA1206
TP101
RV101 ; R-Y/B-Y LEVEL
SWITCH A IN 102-30
SWITCH B IN 102-29
SWITCH C IN 102-28
C-INH IN 102-27
XCLP IN 102-26
GND 9A
GND 9B
GND 12A
GND 15A
GND 23A
GND 25B
GND 26A
GND 28B
GND 29A
GND 30A
GND 31B
GND 32B
GND 33A
GND 35B
GND 36A
Q7 CX20061 B-Y SELECT SW
Q10 2SC4035P B-Y AMP
Q11 2SC403C B-Y BUFFER
Q12 2SA1175 CCD BIAS
IC8 TL8605P B-Y TIME BASE COMPRESSOR
Q13 2SC403C B-Y BUFFER
TP4
TP5
RV8 ; B-Y CCD BIAS
RV7 ; B-Y CCD INPUT LEVEL
Q106 2SC403C DUB R-Y/B-Y BUFFER
IC103 CX20061 R-Y/B-Y / DUB R-Y/B-Y SELECT SW.
IC104 BX389 SYNC MIX / R-Y / B-Y OUTPUT AMP
TP102
E101
RV102 ; DUB R-Y/B-Y LEVEL
R-Y/B-Y OUT (X) 25A
R-Y/B-Y OUT (G) 24A
H ; DUB IN 2/2
DUB R-Y/B-Y IN (X) 10B
DUB R-Y/B-Y IN (G) 11B
CN557 DUB/COMPONENT IN (MALE)
Q14 2SC403C B-Y BUFFER
Q15 2SA1175 CCD BIAS
IC9 TL8605P B-Y TIME BASE COMPRESSOR
Q16 2SC403C B-Y BUFFER
TP6
RV10 ; B-Y CCD BIAS
RV9 ; B-Y CCD INPUT LEVEL
IC4 1478L008AP +8V REGULATOR
Q107 2SC2901 C-REF SYNC AMP
C-REF SYNC IN 101-15
LV101 ; NTSC ···· 33μH PAL ····· 100μH
C123 ; NTSC ···· 62P PAL ····· 200P
C124 ; NTSC ···· 27P PAL ····· 68P
LV101 ; C-REF SYNC RISE TIME
RV103 ; C-REF SYNC LEVEL
CC-15 (1/2)
1-611-522-12
BVW-40
BVW-400
BVW-405

CC-15 (2/2)

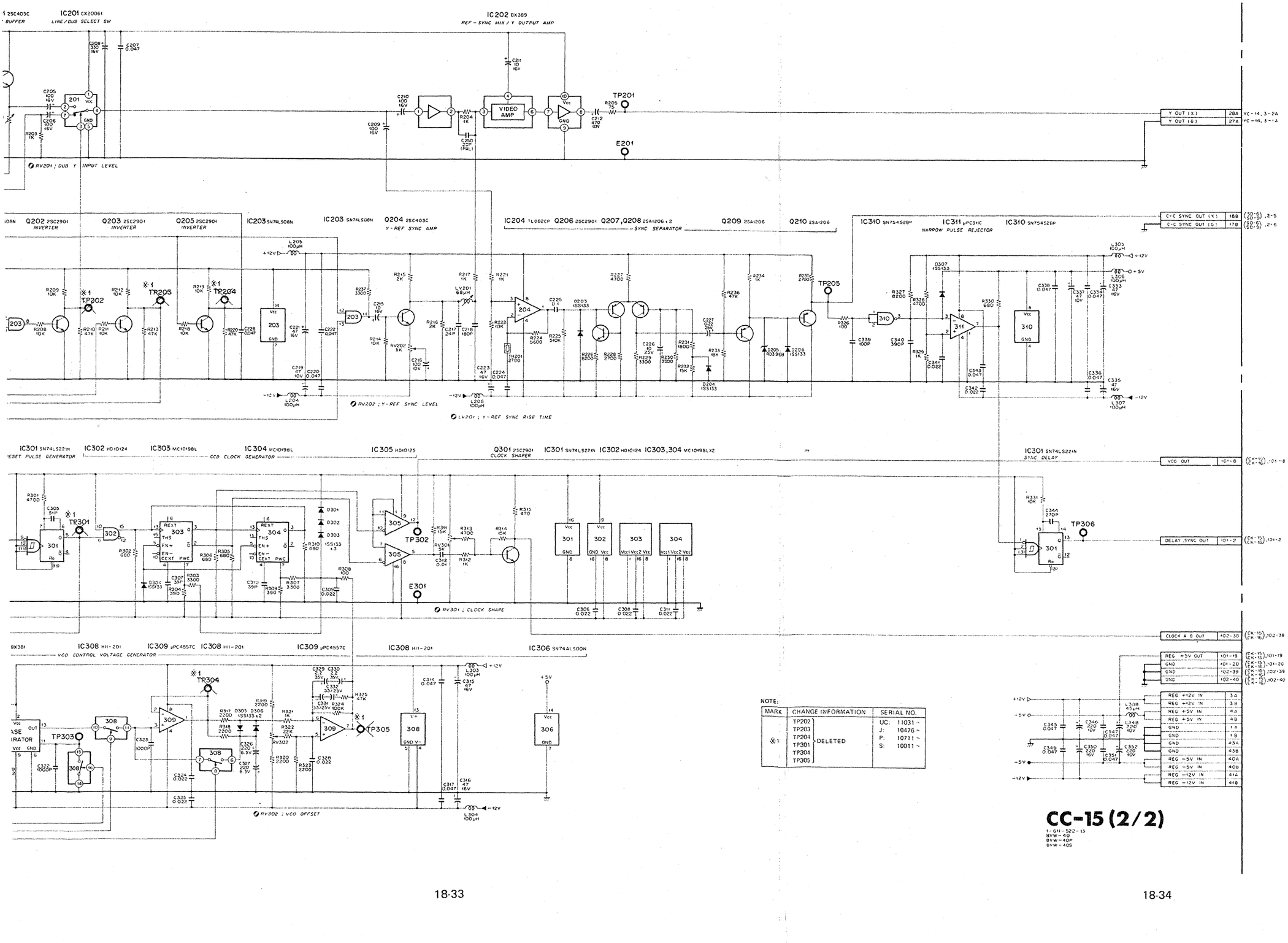
CC-15 (2/2)

CC-15 (2/2) (CHROMA TIME DIVISION MULTIPLEXER)



NOTE;

MARK	CHANGE INFORMATION	SE
※1	TP202, TP203, TP204, TP301, TP304, TP305 DELETED	UC J: P: S:



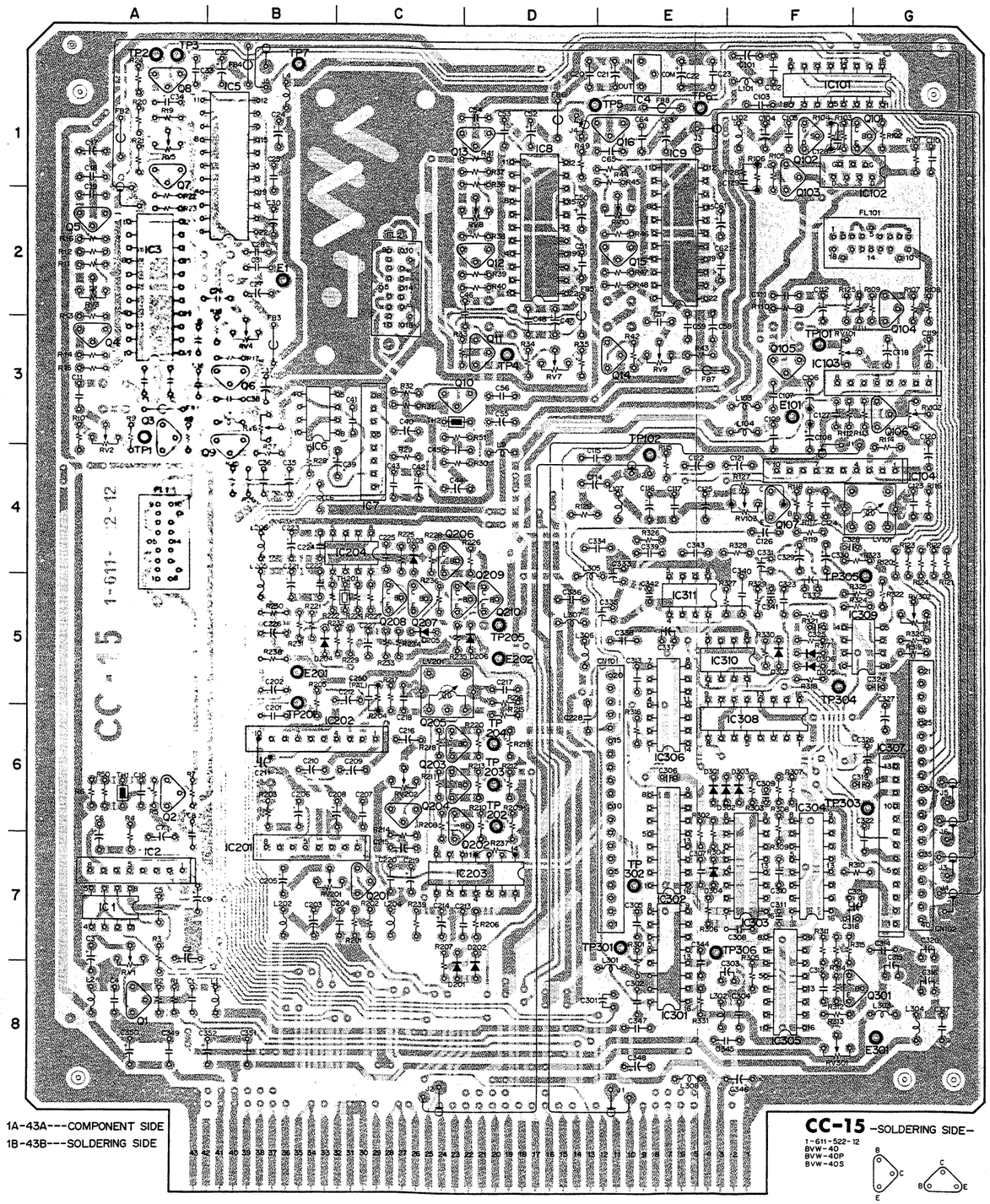
NOTE:

MARK	CHANGE INFORMATION	SERIAL NO.
※1	TP202, TP203, TP204, TP301, TP304, TP305 DELETED	UC: 11031 ~ J: 10476 ~ P: 10711 ~ S: 10011 ~

CC-15 (2/2)

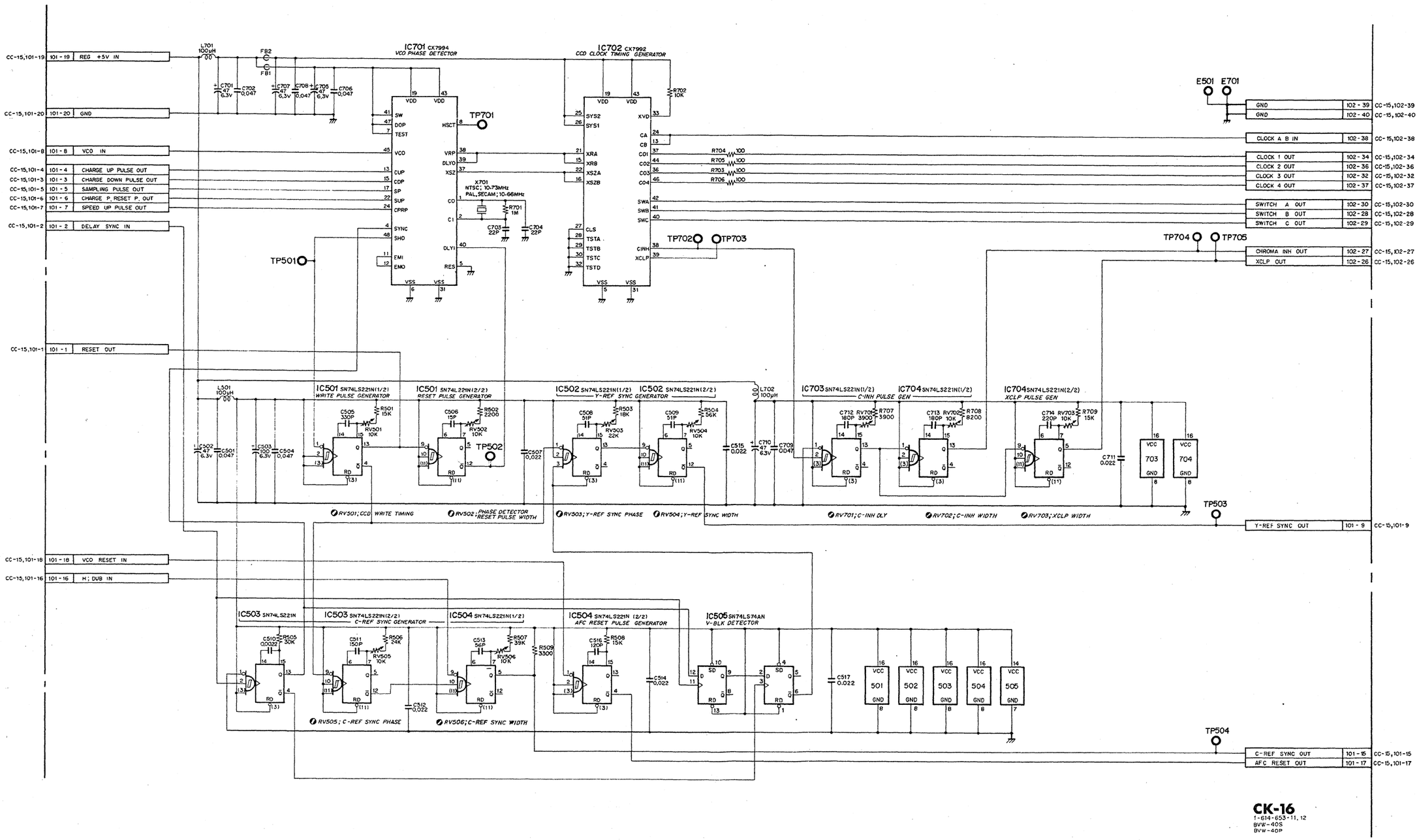
1-611-522-13
BVW-40
BVW-40P
BVW-40S

CC-15 (CHROMA TIME DIVISION MULTIPLEXER)

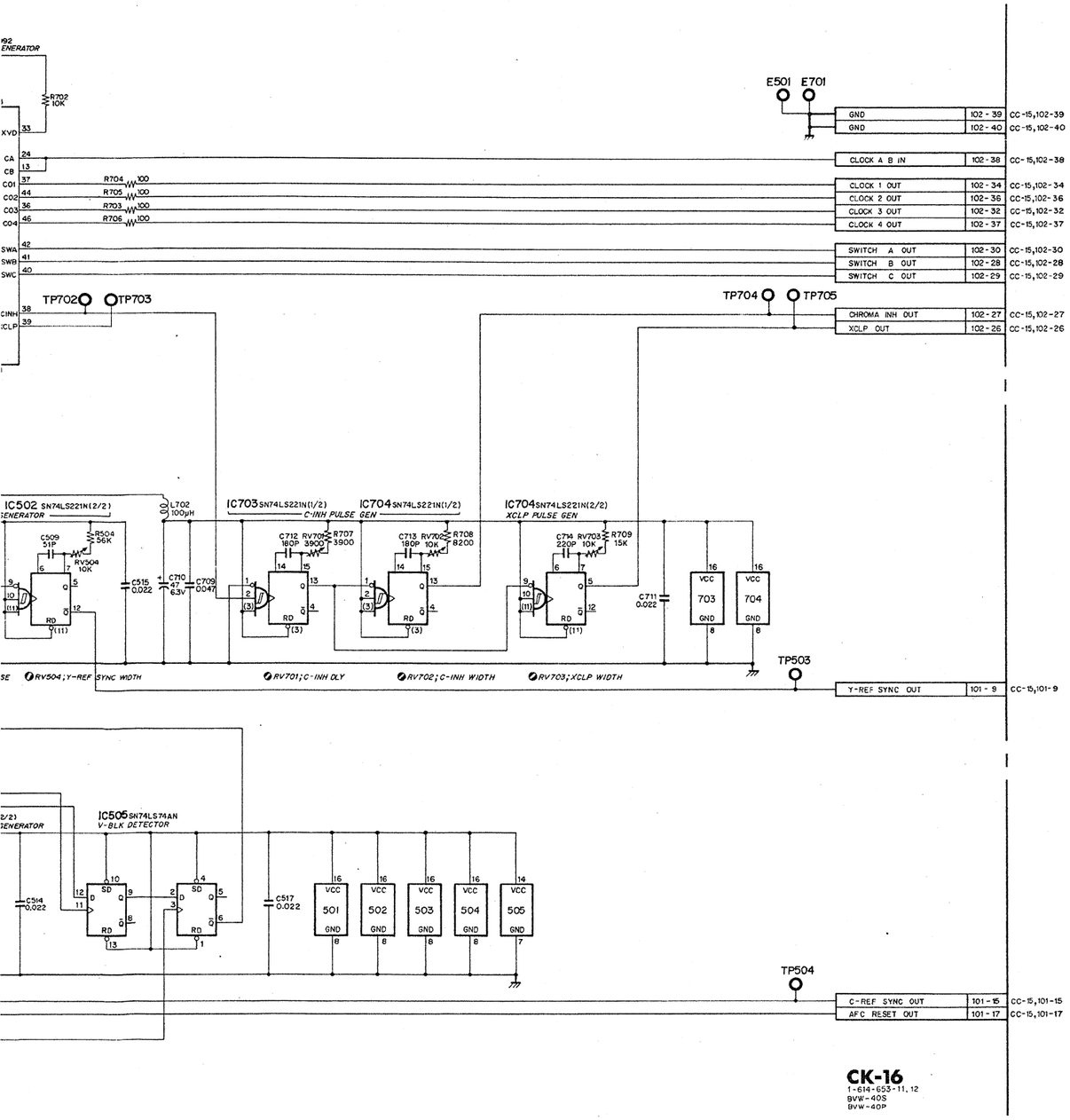


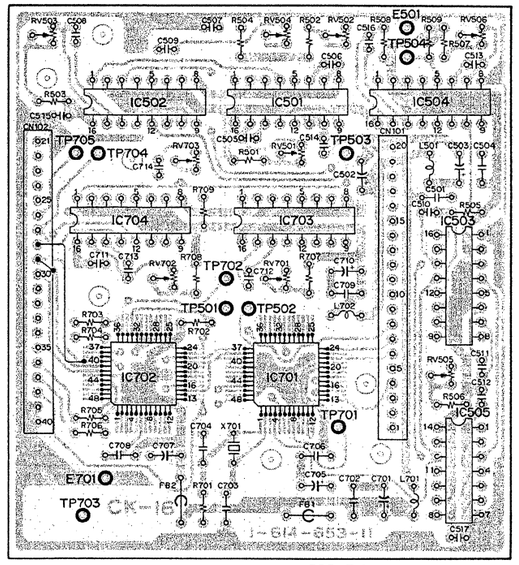
CN101	E - 6	RV1	A - 8
CN102	G - 7	RV2	A - 3
		RV3	A - 2
D201	C - 8	RV4	B - 3
D202	D - 8	RV5	A - 1
D203	C - 4	RV6	B - 3
D204	B - 5	RV7	D - 3
D205	C - 5	RV8	D - 2
D206	D - 5	RV9	E - 3
D301	E - 6	RV10	E - 2
D302	E - 6	RV101	F - 3
D303	F - 6	RV102	G - 3
D304	E - 7	RV103	F - 1
D305	F - 5	RV201	B - 7
D306	F - 5	RV202	C - 6
D307	F - 5	RV301	F - 8
		RV302	G - 5
E1	B - 2		
E101	F - 3	TH1	A - 6
E201	B - 5	TH2	C - 3
E202	D - 5	TH201	C - 5
E301	G - 8		
		TP1	A - 3
FL1	A - 4	TP2	A - 1
FL2	C - 2	TP3	A - 1
FL101	G - 2	TP1	D - 3
		TP5	D - 1
IC1	A - 7	TP6	E - 1
IC2	A - 7	TP7	B - 1
IC3	A - 2	TP101	F - 3
IC4	E - 1	TP102	E - 1
IC5	B - 1	TP201	B - 5
IC6	B - 3	TP202	D - 6
IC7	C - 1	TP203	D - 6
IC8	D - 2	TP204	D - 6
IC9	E - 2	TP205	D - 5
IC101	F - 1	TP301	E - 7
IC102	G - 1	TP302	E - 7
IC103	G - 3	TP303	G - 6
IC104	G - 1	TP304	F - 5
IC201	B - 7	TP305	G - 5
IC202	B - 6	TP306	F - 7
IC203	D - 7		
IC204	C - 1		
IC301	E - 8		
IC302	E - 7		
IC303	F - 7		
IC304	F - 7		
IC305	F - 8		
IC306	E - 6		
IC307	G - 6		
IC308	F - 6		
IC309	G - 5		
IC310	E - 5		
IC311	E - 5		
LV101	G - 1		
LV201	C - 5		
Q1	A - 8		
Q2	A - 6		
Q3	A - 3		
Q4	A - 3		
Q5	A - 2		
Q6	B - 3		
Q7	A - 1		
Q8	A - 1		
Q9	B - 1		
Q10	C - 3		
Q11	D - 3		
Q12	D - 2		
Q13	D - 1		
Q14	E - 3		
Q15	E - 2		
Q16	E - 1		
Q101	G - 1		
Q102	F - 1		
Q103	F - 1		
Q104	G - 2		
Q105	F - 3		
Q106	G - 3		
Q107	F - 1		
Q201	C - 7		
Q202	C - 6		
Q203	C - 6		
Q204	C - 6		
Q205	C - 6		
Q206	C - 1		
Q207	C - 5		
Q208	C - 5		
Q209	C - 5		
Q210	D - 5		
Q301	G - 8		

CK-16 (CCD CLOCK TIMING GENERATOR)



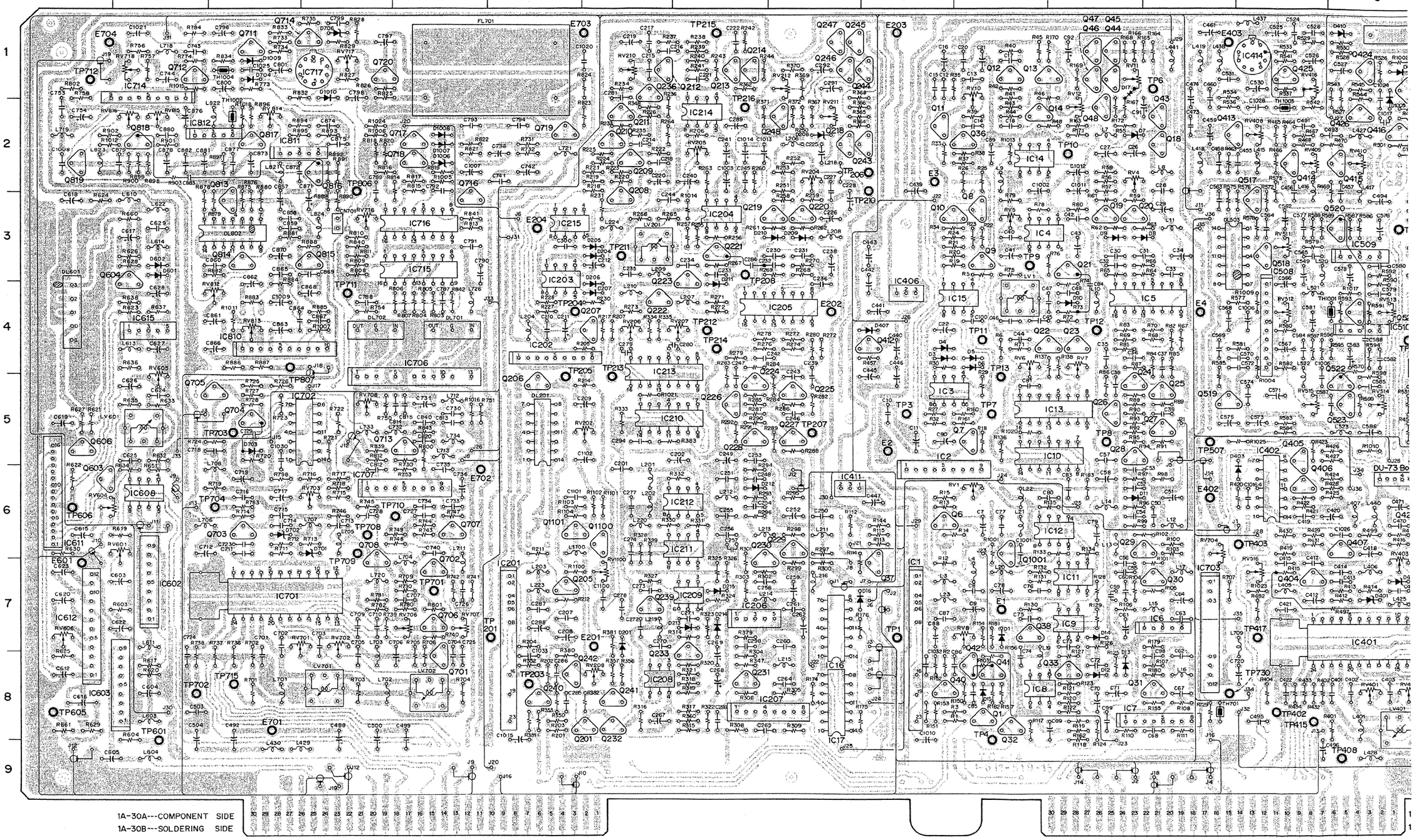
CK-16
1-614-653-11, 12
8VW-40S
8VW-40P

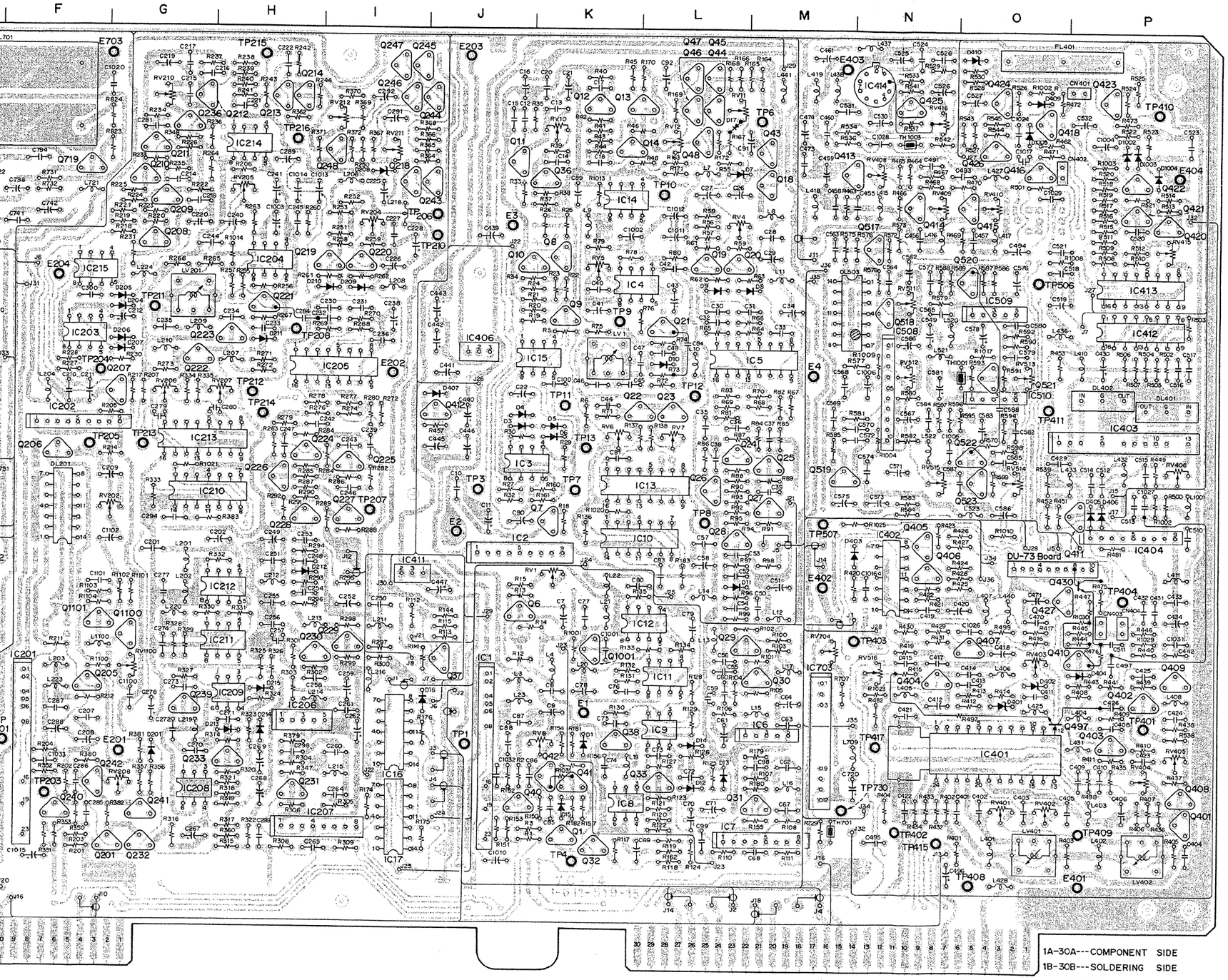




CK-16 – SOLDERING SIDE –
1-614-653-11, 12
BVW-40S
BVW-40P

YC-14 (Y/C MODULATOR AND DEMODULATOR)





CN401	P - 1	E702	E - 6	Q11	J - 2	Q115	O - 2	RV516	N - 7		
CN402	O - 2	E703	F - 1	Q12	K - 1	Q116	O - 2	RV601	B - 6		
CN403	P - 6	E704	A - 1	Q13	K - 1	Q118	O - 1	RV604	A - 6		
CN404	P - 6			Q14	K - 2	Q120	P - 2	RV605	B - 5		
CN701	D - 3	FL401	O - 1	Q18	M - 2	Q121	P - 2	RV606	A - 7		
		FL701	E - 1	Q19	L - 3	Q122	P - 2	RV701	C - 7		
D1	K - 7			Q20	L - 3	Q123	P - 1	RV702	D - 7		
D3	J - 4	IC1	J - 7	Q21	L - 3	Q124	O - 1	RV703	D - 6		
D4	J - 4	IC2	J - 6	Q22	K - 1	Q125	N - 1	RV704	M - 6		
D5	K - 4	IC3	J - 5	Q23	L - 4	Q126	O - 2	RV706	E - 7		
D6	K - 4	IC4	K - 3	Q24	L - 5	Q127	O - 6	RV707	E - 7		
D7	L - 2	IC5	M - 4	Q25	M - 5	Q130	P - 6	RV708	D - 5		
D8	L - 3	IC6	M - 7	Q26	L - 5	Q497	O - 7	RV716	D - 3		
D9	L - 3	IC7	L - 8	Q27	M - 5	Q517	N - 3	RV717	D - 1		
D10	L - 4	IC8	K - 8	Q28	L - 5	Q518	N - 3	RV718	B - 1		
D11	L - 6	IC9	L - 7	Q29	L - 6	Q519	M - 5	RV812	C - 4		
D12	L - 8	IC10	K - 5	Q30	M - 7	Q520	O - 3	RV813	C - 4		
D13	L - 8	IC11	L - 7	Q36	M - 8	Q521	O - 4	RV814	C - 2		
D14	L - 7	IC12	L - 6	Q38	K - 8	Q522	O - 5	RV815	B - 2		
D15	K - 8	IC13	K - 5	Q42	J - 8	Q523	O - 5	RV816	B - 2		
D16	I - 7	IC14	K - 2	Q43	K - 2	Q603	A - 6	RV1100	G - 7		
D17	L - 2	IC15	K - 4	Q47	J - 7	Q604	B - 3				
D201	G - 7	IC16	I - 7	Q48	K - 7	Q606	A - 5	TH701	M - 8		
D204	G - 3	IC17	I - 8	Q401	J - 8	Q701	E - 8	TH1001	O - 4		
D205	G - 3	IC201	F - 7	Q402	K - 8	Q702	E - 7	TH1002	C - 2		
D206	G - 4	IC202	F - 4	Q403	K - 8	Q703	C - 6	TH1003	N - 2		
D207	G - 4	IC203	F - 3	Q404	M - 2	Q704	C - 5	TH1004	C - 1		
D208	I - 2	IC204	H - 3	Q405	L - 1	Q705	C - 5				
D209	I - 3	IC205	I - 4	Q406	L - 1	Q706	E - 7	TP1	J - 7		
D210	I - 3	IC206	H - 7	Q407	L - 1	Q707	E - 6	TP3	J - 5		
D211	H - 4	IC207	H - 8	Q408	L - 2	Q708	D - 7	TP4	K - 8		
D212	H - 6	IC208	G - 8	Q409	F - 8	Q711	C - 1	TP6	M - 1		
D213	H - 7	IC209	H - 7	Q410	F - 7	Q712	B - 1	TP7	K - 5		
D214	H - 7	IC210	G - 5	Q412	G - 5	Q713	E - 5	TP8	L - 5		
D215	H - 7	IC211	H - 6	Q413	G - 4	Q714	D - 1	TP9	K - 1		
D401	O - 7	IC212	H - 6	Q414	G - 3	Q716	E - 3	TP10	L - 2		
D402	O - 7	IC213	G - 4	Q415	L - 1	Q717	E - 2	TP11	K - 1		
D403	N - 6	IC214	H - 2	Q416	L - 1	Q718	E - 2	TP12	L - 1		
D404	P - 7	IC215	F - 3	Q417	L - 1	Q719	F - 2	TP13	K - 5		
D405	P - 5	IC401	O - 7	Q418	L - 2	Q720	D - 1	TP201	F - 7		
D406	P - 5	IC402	N - 6	Q419	F - 8	Q813	C - 3	TP203	F - 8		
D407	J - 4	IC403	P - 4	Q420	F - 7	Q814	C - 3	TP204	F - 4		
D409	O - 1	IC404	P - 5	Q421	F - 5	Q815	D - 3	TP205	F - 5		
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D601	B - 3	IC411	I - 6	Q423	G - 3	Q817	C - 2	TP208	H - 3		
D602	B - 3	IC412	P - 3	Q424	G - 2	Q818	B - 2	TP210	J - 2		
D701	D - 6	IC413	P - 3	Q425	G - 2	Q819	A - 2	TP211	G - 3		
D702	C - 6	IC414	N - 1	Q426	G - 1	Q1001	K - 6	TP212	H - 4		
D703	C - 5	IC508	N - 4	Q427	H - 1	Q1100	G - 6	TP213	G - 5		
D704	C - 1	IC509	O - 3	Q428	H - 1	Q1101	F - 6	TP214	H - 4		
D706	D - 1	IC510	O - 4	Q429	H - 5			TP215	H - 1		
D1002	P - 2	IC602	B - 7	Q430	I - 5	RV1	K - 6	TP216	H - 2		
D1003	P - 2	IC603	B - 8	Q431	I - 5	RV4	L - 2	TP401	P - 7		
D1004	P - 2	IC608	B - 6	Q432	H - 5	RV5	K - 3	TP402	N - 8		
D1005	O - 1	IC611	A - 6	Q433	I - 7	RV6	K - 4	TP403	N - 6		
D1006	E - 2	IC612	A - 7	Q434	H - 7	RV7	L - 4	TP404	P - 6		
D1007	E - 2	IC615	B - 4	Q435	H - 8	RV8	K - 7	TP408	O - 8		
D1008	E - 2	IC701	C - 7	Q436	G - 8	RV10	K - 1	TP409	P - 8		
D1009	C - 1	IC702	D - 5	Q437	H - 8	RV11	L - 1	TP410	P - 1		
D1010	D - 1	IC703	M - 7	Q438	G - 1	RV12	L - 2	TP411	O - 1		
		IC706	E - 5	Q439	G - 7	RV202	G - 5	TP415	N - 8		
DL201	F - 5	IC707	D - 6	Q210	F - 8	RV204	I - 2	TP417	N - 7		
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DL702	D - 4	IC811	C - 2	Q216	I - 1	RV211	I - 2	TP701	E - 7		
DL802	C - 3	IC812	B - 2	Q217	I - 1	RV212	I - 1	TP702	B - 8		
				Q218	I - 2	RV401	O - 8	TP703	C - 5		
E1	K - 7	LV1	K - 1	Q401	P - 8	RV402	O - 8	TP704	C - 6		
E2	J - 5	LV201	G - 3	Q402	P - 7	RV403	O - 7	TP708	D - 6		
E3	J - 2	LV401	O - 8	Q403	P - 7	RV404	P - 8	TP709	D - 6		
E4	M - 4	LV402	P - 8	Q404	N - 7	RV405	P - 7	TP710	E - 6		
E201	G - 7	LV601	B - 5	Q405	N - 5	RV406	P - 5	TP711	D - 1		
E202	I - 4	LV701	D - 8	Q406	N - 6	RV408	N - 2	TP712	A - 1		
E203	J - 1	LV702	E - 8	Q407	O - 6	RV409	N - 2	TP715	C - 8		
E204	F - 3			Q408	P - 8	RV415	P - 3	TP730	M - 8		
E401	P - 8	Q1	K - 8	Q409	P - 7	RV416	N - 1	TP806	D - 3		
E402	M - 6	Q6	J - 6	Q110	P - 7	RV511	N - 3	TP807	C - 1		
E403	M - 1	Q7	K - 5	Q111	P - 5	RV512	N - 4				
E404	P - 2	Q8	K - 3	Q112	J - 4	RV513	O - 1				
E601	A - 7	Q9	K - 3	Q113	M - 2	RV514	O - 5				
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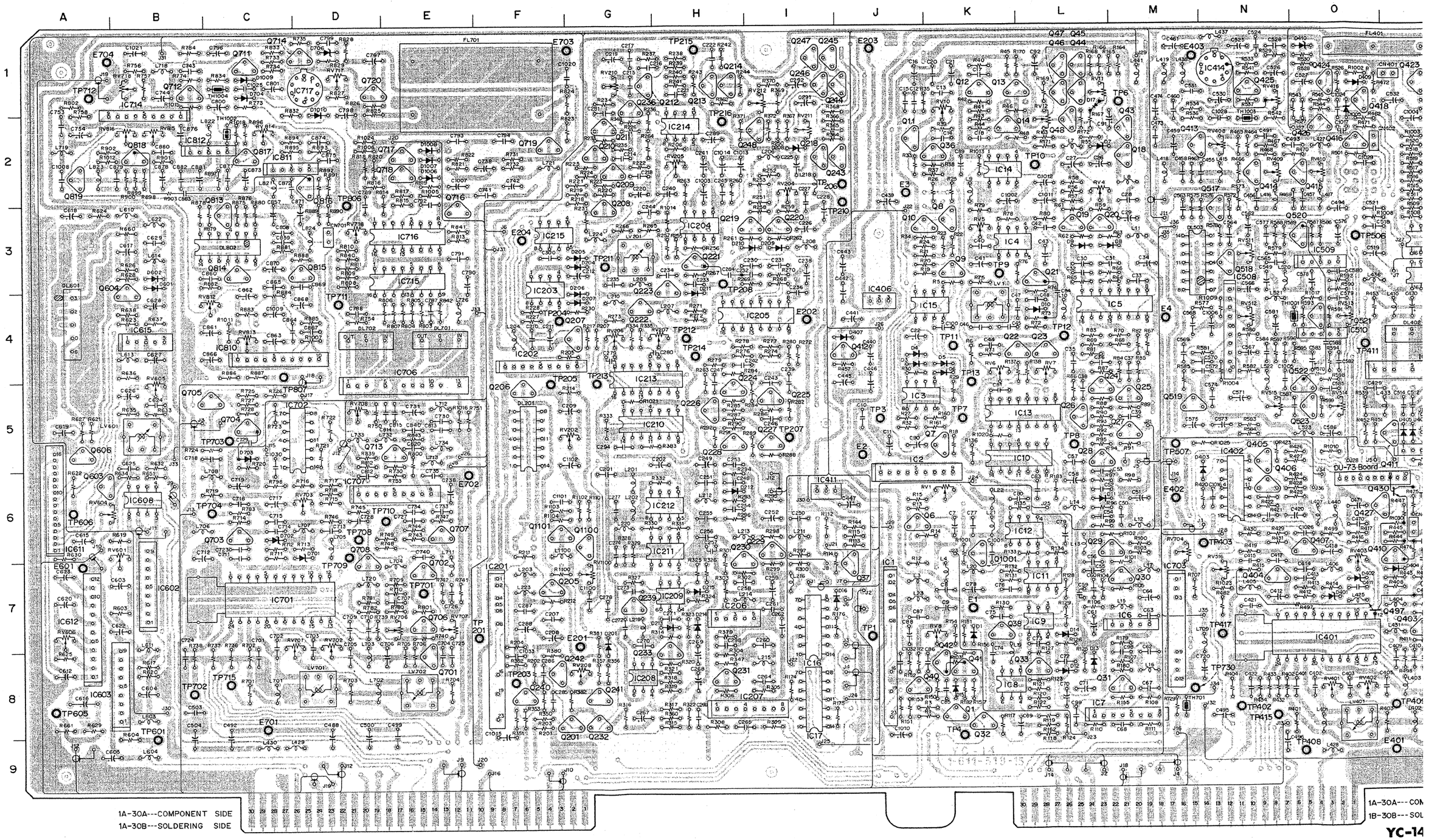
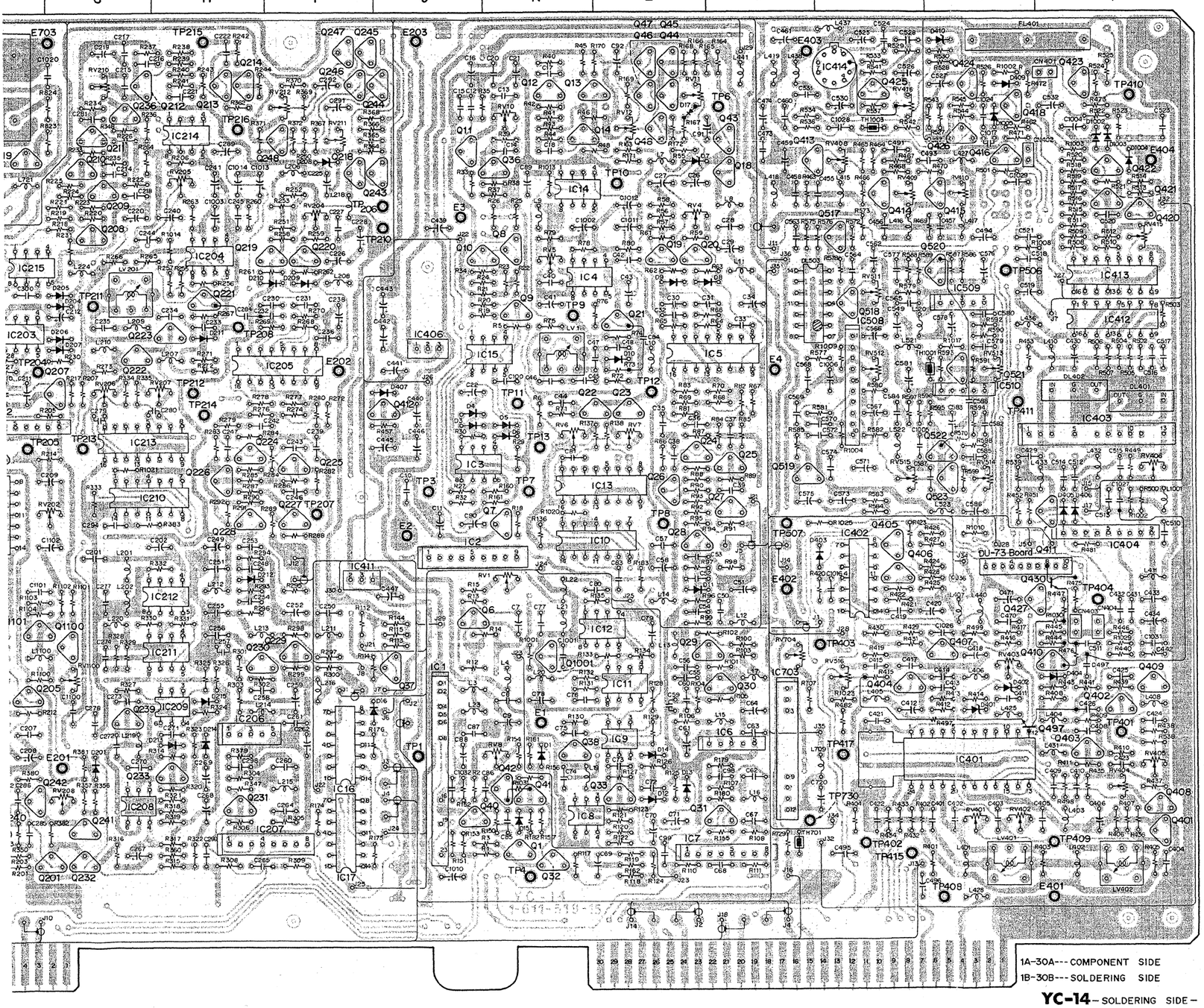
YC-14 (Y/C MODULATOR AND DEMODULATOR)

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Q247 Q245
Q247 Q45
Q46 Q44
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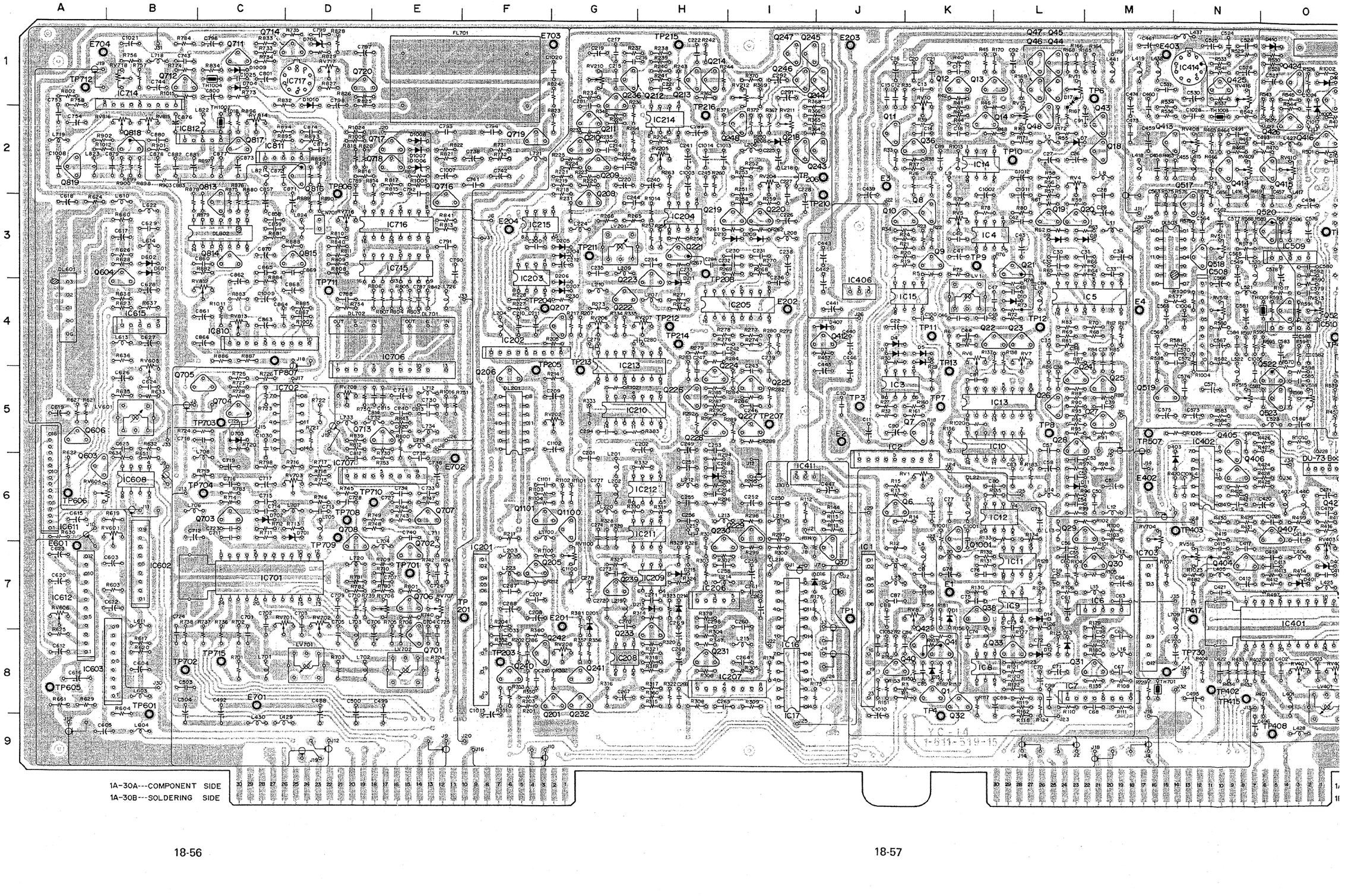
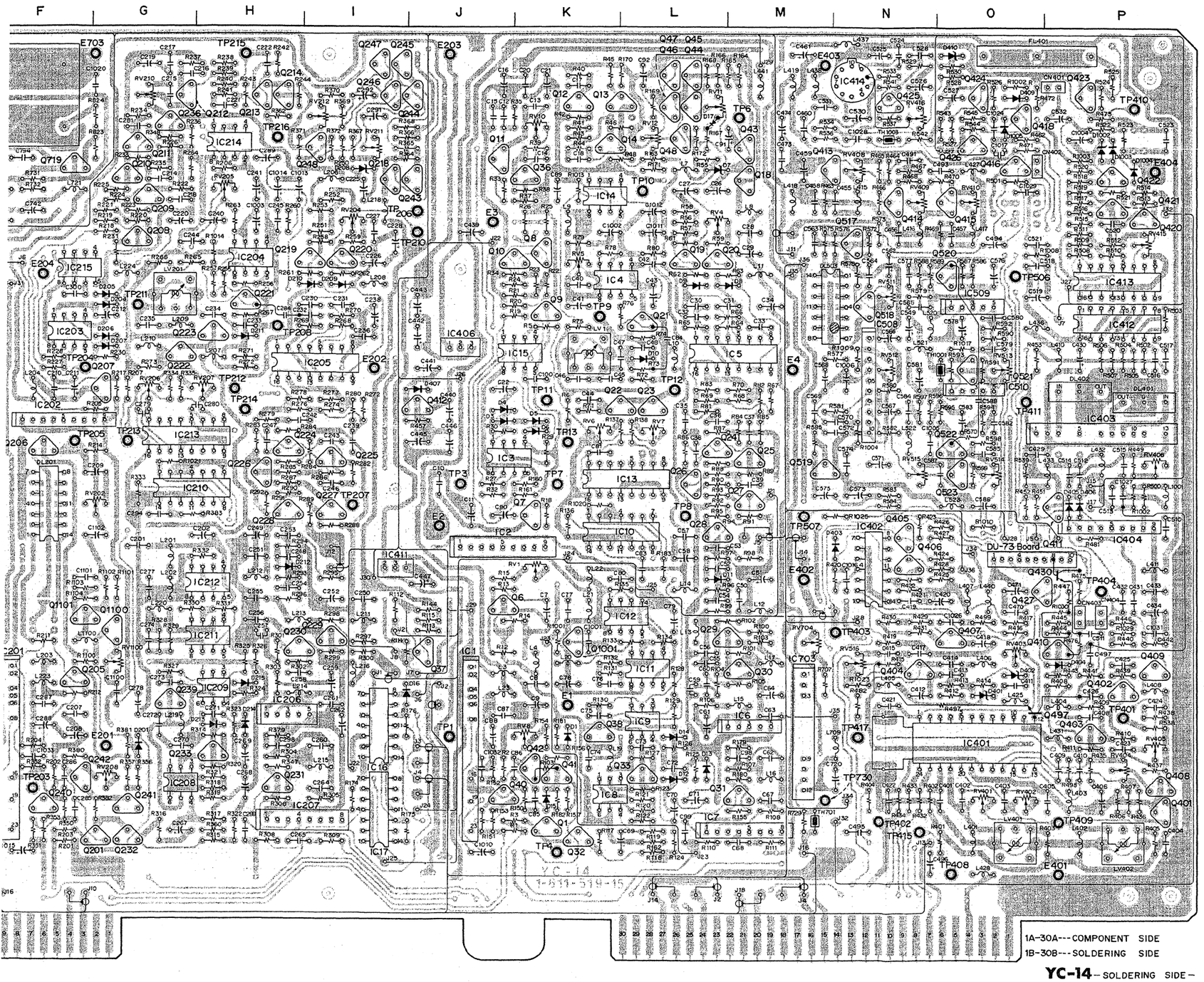
YC-14, DU-73 YC-14, DU-73

YC-14 (Y/C MODULATOR AND DEMODULATOR)
DU-73

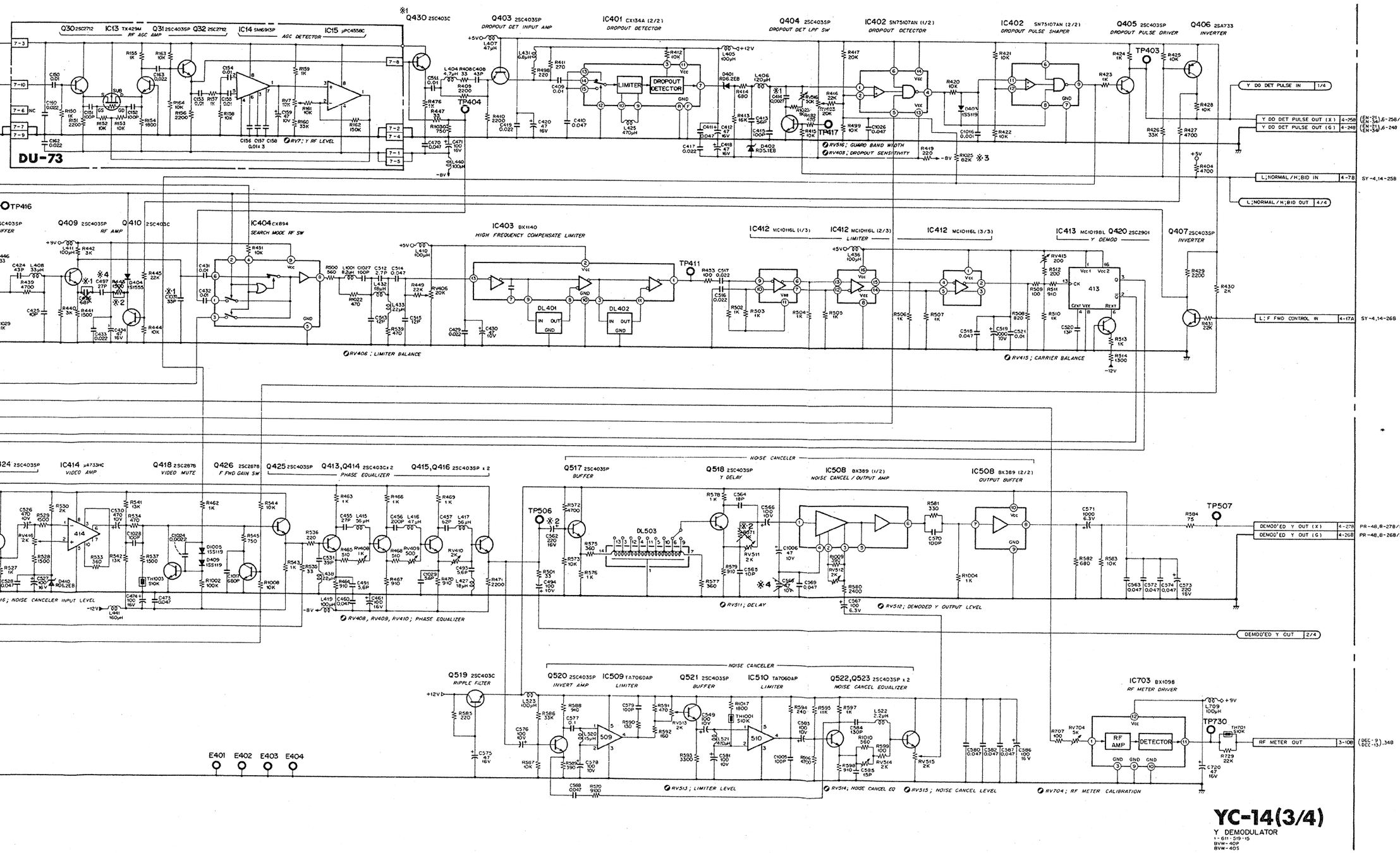



F G H I J K L M N O P
E703 TP215 Q247 Q245 E203 Q47 Q45 Q46 Q44 E403 FL401
Q214 Q246 Q244 Q212 Q213 Q236 IC214 TP216 Q248 Q218 Q243 Q211 Q210 Q209 Q208 Q219 Q220 TP206 TP210 IC204 IC215 E204 TP211 Q221 IC203 TP208 Q223 IC205 E202 TP212 Q222 TP214 IC202 TP205 TP213 IC213 Q224 Q225 Q228 Q227 TP207 Q226 IC210 IC212 IC211 Q1101 Q1100 Q230 Q229 IC209 Q205 Q239 IC206 E201 Q242 Q233 IC208 Q231 Q240 Q241 IC207 Q201 Q232 IC201 IC411 IC16 IC17 IC406 IC15 E202 TP11 TP13 IC3 TP3 TP7 E2 IC2 IC1 TP1 Q1 Q32 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q36 Q12 Q13 Q14 Q48 TP10 IC14 E3 IC4 TP9 Q21 Q20 Q19 IC5 TP12 Q22 Q23 Q24 Q25 Q26 TP8 IC10 IC13 IC12 IC11 IC9 IC8 Q38 Q33 Q42 Q41 Q40 Q31 IC7 IC6 Q30 Q29 Q28 Q27 Q18 Q43 Q517 Q414 Q415 Q520 TP506 C509 IC413 IC412 Q518 C508 Q519 Q521 IC510 TP411 IC403 TP507 IC402 Q405 Q406 DU-73 Board Q411 IC404 E402 Q403 Q404 Q427 Q407 Q409 Q402 Q497 TP401 TP403 IC703 TP417 IC401 TP730 TP402 TP415 TP409 TP408 E401 Q408 Q401 Q416 Q417 Q418 Q420 Q421 Q422 Q423 TP410 E404 TP404 Q430 Q426 Q424 Q425 E405 TP405 TP406 TP407 TP501 TP502 TP503 TP504 TP505 TP508 TP509 TP510 TP511 TP512 TP513 TP514 TP515 TP516 TP517 TP518 TP519 TP520 TP521 TP522 TP523 TP524 TP525 TP526 TP527 TP528 TP529 TP530 TP531 TP532 TP533 TP534 TP535 TP536 TP537 TP538 TP539 TP540 TP541 TP542 TP543 TP544 TP545 TP546 TP547

YC-14 (3/4) (Y DEMODULATOR)

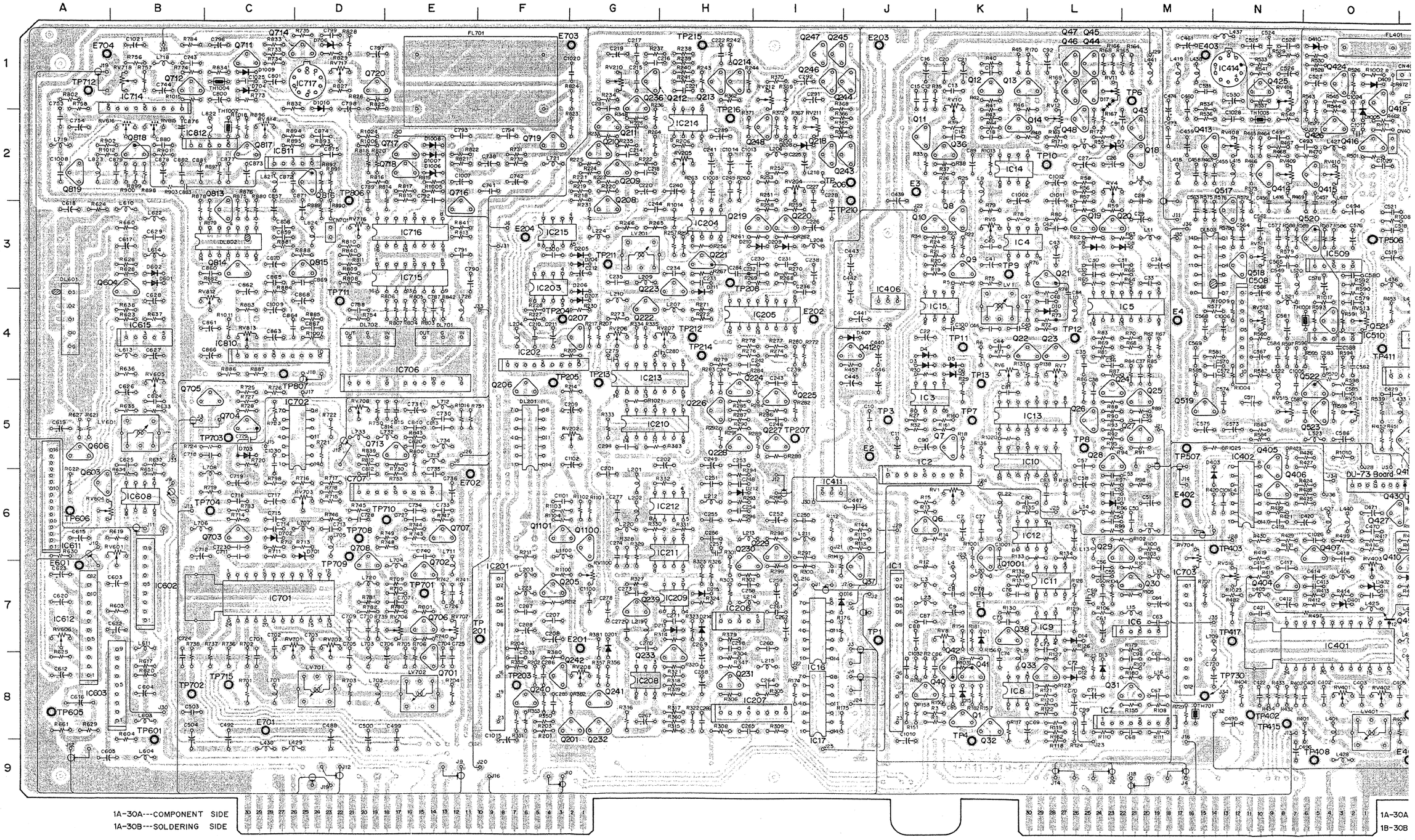
NOTE:

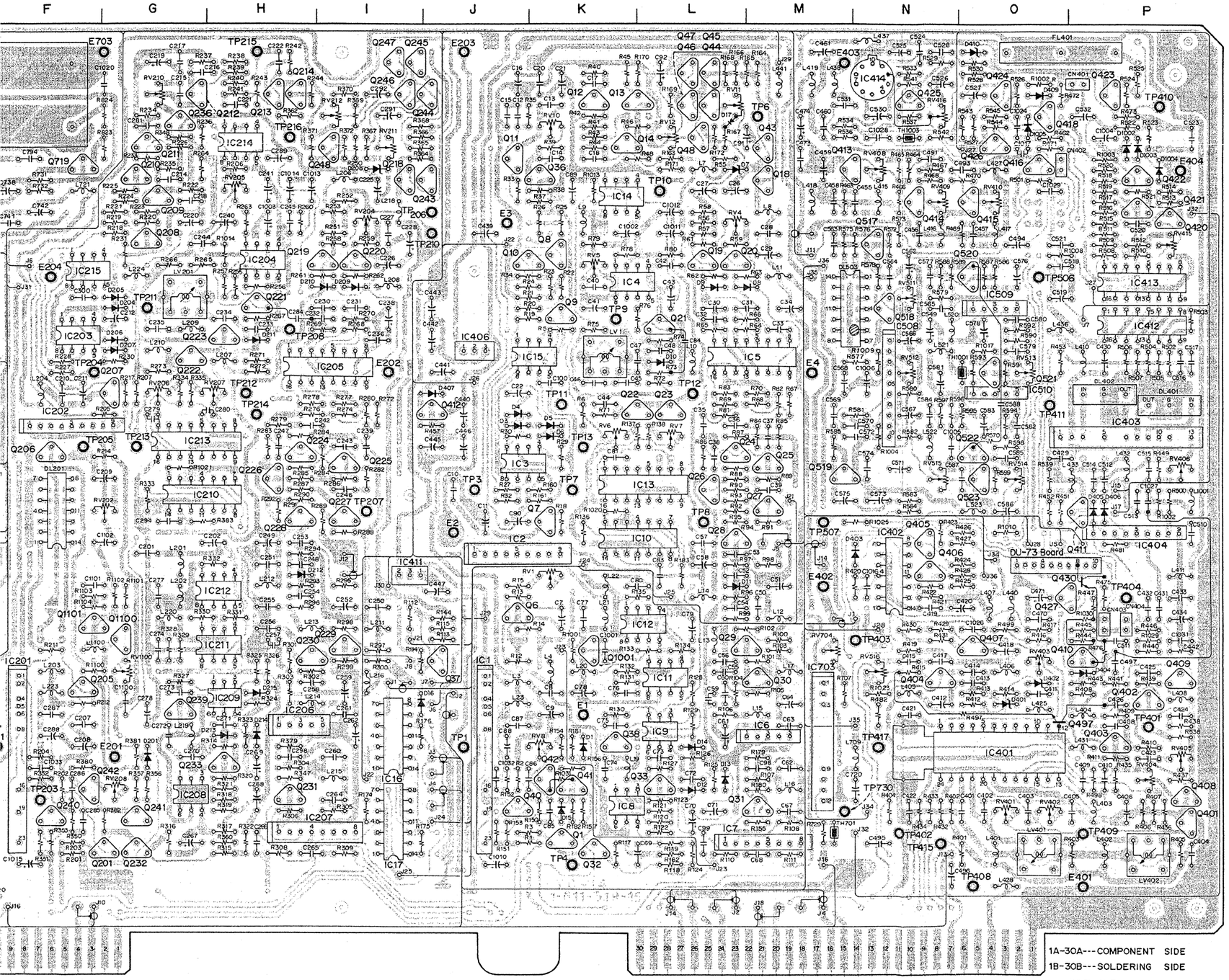
MARK	CHANGE INFORMATION	SERIAL NO.
※1	C426 68P DELETED (SHORT) C414 0.001 → 0.0027 C1031 20P → 33P Q430 2SC403C ADDED	P: 10431 ~ S: 10011 ~
※2	C562 220/6.3V → 220/16V R443 1500 } DELETED R571 1K }	P: 10481 ~ S: 10011 ~
※3	R1025 56K → 82K	P: 10531 ~ S: 10011 ~
※4	C568 47/10V DELETED L409 33μ → C497 27P	P: 10631 ~ S: 10011 ~



YC-14(3/4)
Y DEMODULATOR
1-611-519-15
BVW-40P
BVW-40S

YC-14 (Y/C MODULATOR AND DEMODULATOR)





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CN402	O - 2	E703	F - 1	Q12	K - 1	Q116	O - 2	RV601	B - 6		
CN403	P - 6	E704	A - 1	Q13	K - 1	Q118	O - 1	RV604	A - 6		
CN404	P - 6			Q14	K - 2	Q120	P - 2	RV605	B - 5		
CN701	D - 3	FL401	O - 1	Q18	M - 2	Q121	P - 2	RV606	A - 7		
		FL701	E - 1	Q19	L - 3	Q122	P - 2	RV701	C - 7		
D1	K - 7			Q20	L - 3	Q123	P - 1	RV702	D - 7		
D3	J - 4	IC1	J - 7	Q21	L - 3	Q124	O - 1	RV703	D - 6		
D4	J - 4	IC2	J - 6	Q22	K - 1	Q125	N - 1	RV704	M - 6		
D5	K - 4	IC3	J - 5	Q23	L - 4	Q126	O - 2	RV706	E - 7		
D6	K - 4	IC4	K - 3	Q24	L - 5	Q127	O - 6	RV707	E - 7		
D7	L - 2	IC5	M - 4	Q25	M - 5	Q130	P - 6	RV708	D - 5		
D8	L - 3	IC6	M - 7	Q26	L - 5	Q197	O - 7	RV716	D - 3		
D9	L - 3	IC7	L - 8	Q27	M - 5	Q517	N - 3	RV717	D - 1		
D10	L - 4	IC8	K - 8	Q28	L - 5	Q518	N - 3	RV718	B - 1		
D11	L - 6	IC9	L - 7	Q29	L - 6	Q519	M - 5	RV812	C - 4		
D12	L - 8	IC10	K - 5	Q30	M - 7	Q520	O - 3	RV813	C - 4		
D13	L - 8	IC11	L - 7	Q31	M - 8	Q521	O - 4	RV814	C - 2		
D14	L - 7	IC12	L - 6	Q32	K - 8	Q522	O - 5	RV815	B - 2		
D15	K - 8	IC13	K - 5	Q33	L - 8	Q523	O - 5	RV816	B - 2		
D16	I - 7	IC14	K - 2	Q36	K - 2	Q603	A - 6	RV1100	G - 7		
D17	L - 2	IC15	K - 4	Q37	J - 7	Q604	B - 3				
D201	G - 7	IC16	I - 7	Q38	K - 7	Q606	A - 5	TH701	M - 8		
D204	G - 3	IC17	I - 8	Q40	J - 8	Q701	E - 8	TH1001	O - 1		
D205	G - 3	IC201	F - 7	Q41	K - 8	Q702	E - 7	TH1002	C - 2		
D206	G - 4	IC202	F - 4	Q42	K - 8	Q703	C - 6	TH1003	N - 2		
D207	G - 4	IC203	F - 3	Q43	M - 2	Q704	C - 5	TH1004	C - 1		
D208	I - 2	IC204	H - 3	Q44	L - 1	Q705	C - 5				
D209	I - 3	IC205	I - 4	Q45	L - 1	Q706	E - 7	TP1	J - 7		
D210	I - 3	IC206	H - 7	Q46	L - 1	Q707	E - 6	TP3	J - 5		
D211	H - 4	IC207	H - 8	Q47	L - 1	Q708	D - 7	TP4	K - 8		
D212	H - 6	IC208	G - 8	Q48	L - 2	Q711	C - 1	TP6	M - 1		
D213	H - 7	IC209	H - 7	Q201	F - 8	Q712	B - 1	TP7	K - 5		
D214	H - 7	IC210	G - 5	Q205	F - 7	Q713	E - 5	TP8	L - 5		
D215	H - 7	IC211	H - 6	Q206	F - 5	Q711	D - 1	TP9	K - 4		
D401	O - 7	IC212	H - 6	Q207	G - 1	Q716	E - 3	TP10	L - 2		
D402	O - 7	IC213	G - 4	Q208	G - 3	Q717	E - 2	TP11	K - 4		
D403	N - 6	IC214	H - 2	Q209	G - 2	Q718	E - 2	TP12	L - 4		
D404	P - 7	IC215	F - 3	Q210	G - 2	Q719	F - 2	TP13	K - 5		
D405	P - 5	IC401	O - 7	Q211	G - 2	Q720	D - 1	TP201	F - 7		
D406	P - 5	IC402	N - 6	Q212	G - 1	Q813	C - 3	TP203	F - 8		
D407	J - 4	IC403	P - 4	Q213	H - 1	Q814	C - 3	TP201	F - 1		
D409	O - 1	IC404	P - 5	Q214	H - 1	Q815	D - 3	TP205	F - 5		
D410	O - 1	IC106	J - 4	Q218	I - 2	Q816	D - 2	TP207	I - 5		
D601	B - 3	IC111	I - 6	Q219	I - 3	Q817	C - 2	TP208	H - 3		
D602	B - 3	IC112	P - 3	Q220	I - 3	Q818	B - 2	TP210	J - 2		
D701	D - 6	IC113	P - 3	Q221	H - 3	Q819	A - 2	TP211	G - 3		
D702	C - 6	IC114	N - 1	Q222	G - 1	Q1001	K - 6	TP212	H - 1		
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D1002	P - 2	IC602	B - 7	Q226	H - 5	RV1	K - 6	TP216	H - 2		
D1003	P - 2	IC603	B - 8	Q227	I - 5	RV4	L - 2	TP101	P - 7		
D1004	P - 2	IC608	B - 6	Q228	H - 5	RV5	K - 3	TP102	N - 8		
D1005	O - 1	IC611	A - 6	Q229	I - 7	RV6	K - 4	TP103	N - 6		
D1006	E - 2	IC612	A - 7	Q230	H - 7	RV7	L - 1	TP104	P - 6		
D1007	E - 2	IC615	B - 1	Q231	H - 8	RV8	K - 7	TP108	O - 8		
D1008	E - 2	IC701	C - 7	Q232	G - 8	RV10	K - 1	TP109	P - 8		
D1009	C - 1	IC702	D - 5	Q233	H - 8	RV11	L - 1	TP110	P - 1		
D1010	D - 1	IC703	M - 7	Q236	C - 1	RV12	L - 2	TP111	O - 1		
		IC706	E - 5	Q239	G - 7	RV202	G - 5	TP115	N - 8		
DL201	F - 5	IC707	D - 6	Q240	F - 8	RV204	I - 2	TP117	N - 7		
DL401	P - 1	IC714	B - 1	Q241	G - 8	RV205	H - 2	TP506	O - 3		
DL402	P - 1	IC715	E - 3	Q242	F - 8	RV206	G - 4	TP507	M - 5		
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DL601	A - 4	IC717	D - 1	Q244	J - 1	RV208	G - 8	TP605	A - 8		
DL701	E - 1	IC810	C - 4	Q245	I - 1	RV210	G - 1	TP606	A - 6		
DL702	D - 1	IC811	C - 2	Q246	I - 1	RV211	I - 2	TP701	E - 7		
DL802	C - 3	IC812	B - 2	Q247	I - 1	RV212	I - 1	TP702	B - 8		
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E1	K - 7	LV1	K - 4	Q401	P - 8	RV402	O - 8	TP704	C - 6		
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E3	J - 2	LV401	O - 8	Q403	P - 7	RV404	P - 8	TP709	D - 6		
E4	M - 4	LV402	P - 8	Q404	N - 7	RV405	P - 7	TP710	E - 6		
E201	G - 7	LV601	B - 5	Q405	N - 5	RV406	P - 5	TP711	D - 1		
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E204	F - 3			Q408	P - 8	RV415	P - 3	TP730	M - 8		
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E404	P - 2	Q8	K - 3	Q412	J - 1	RV513	O - 4				
E601	A - 7	Q9	K - 3	Q413	M - 2	RV514	O - 5				
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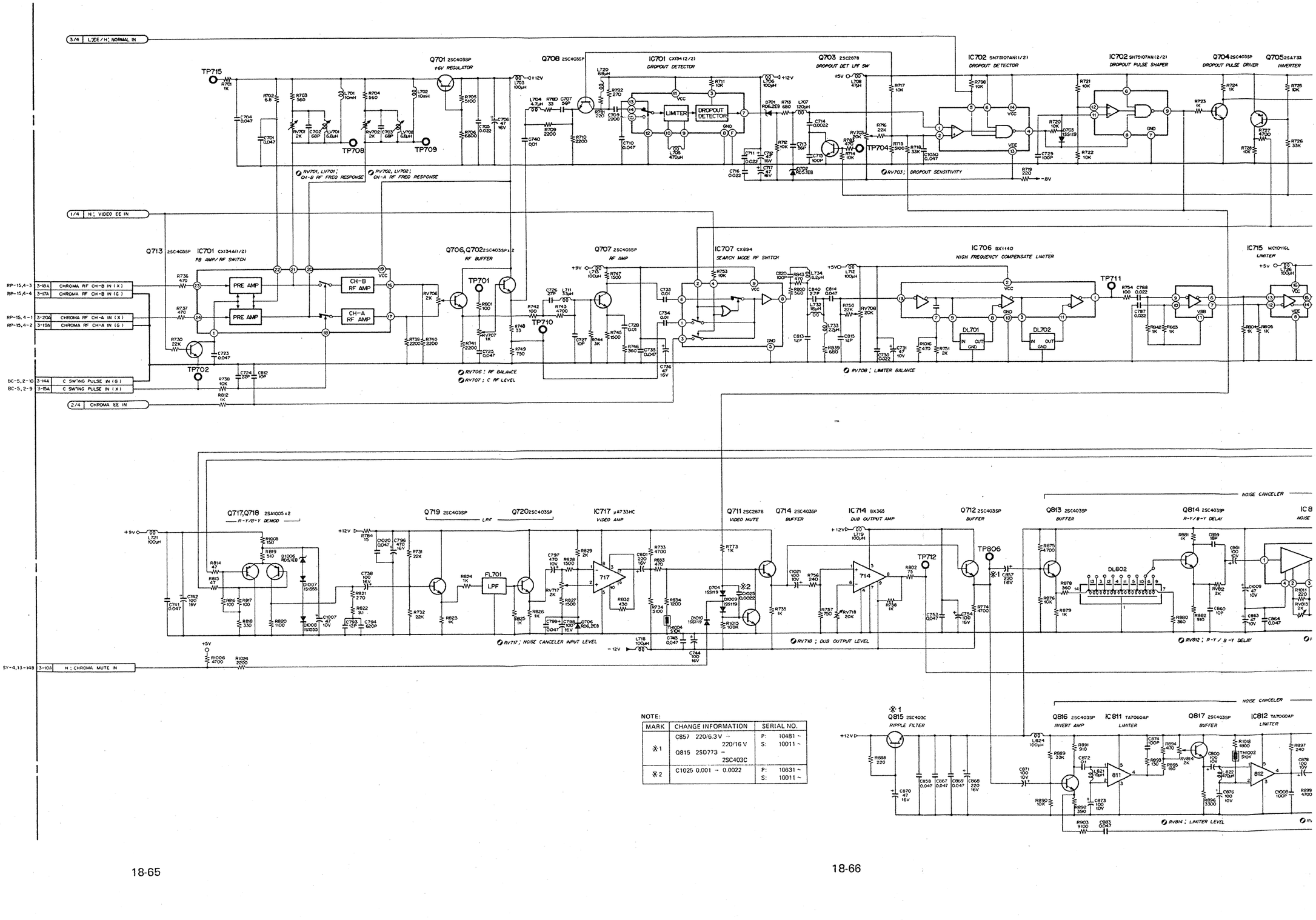
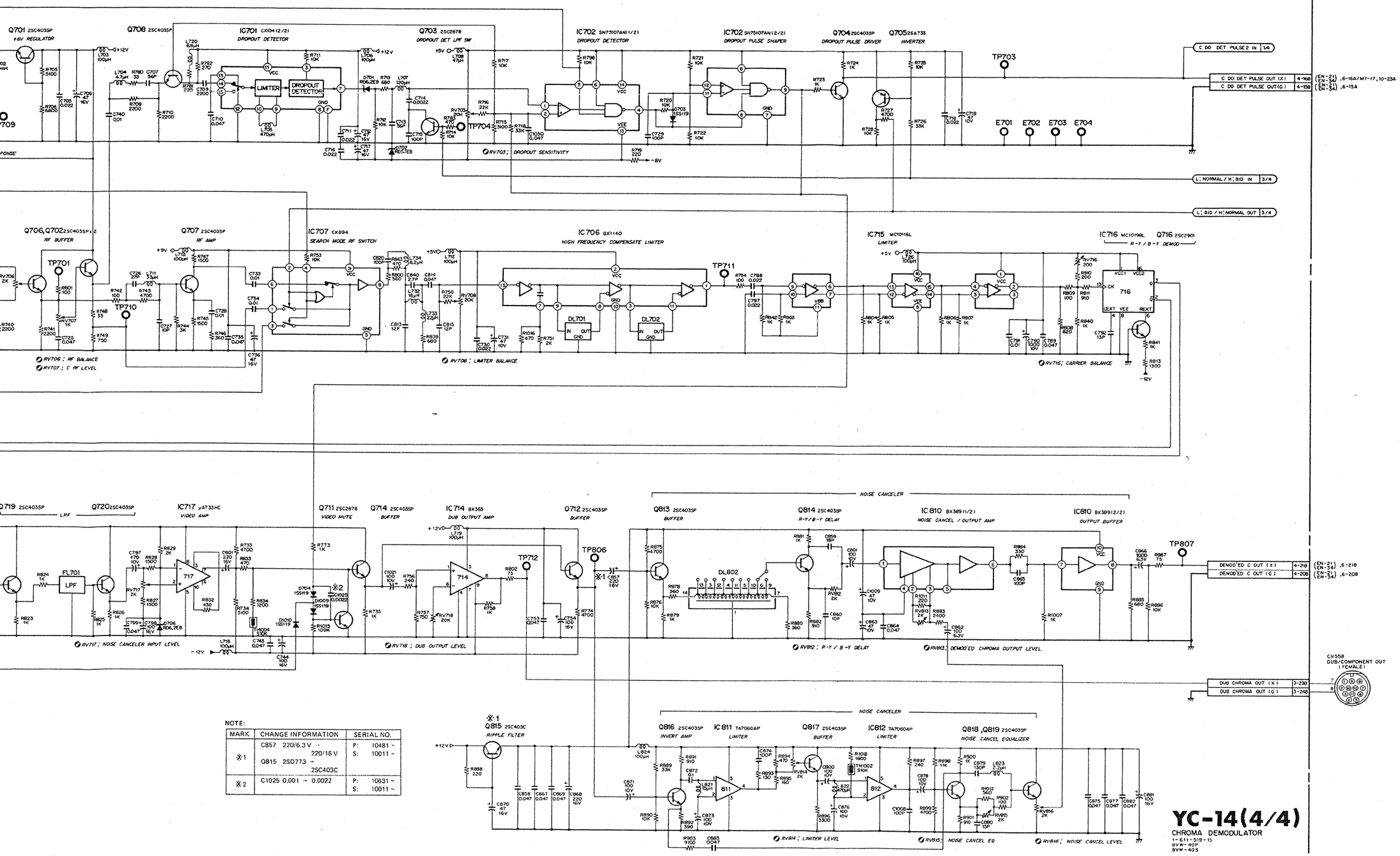
YC-14 (4/4) (CHROMA DEMODULATOR)



NOTE:

MARK	CHANGE INFORMATION	SERIAL NO.
※1	C857 220/6.3V → 220/16 V Q815 2SD773 → 2SC403C	P: 10481 ~ S: 10011 ~
※2	C1025 0.001 → 0.0022	P: 10631 ~ S: 10011 ~



NOTE:

MARK	CHANGE INFORMATION	SERIAL NO.
※1	C857 220/6.3V → 220/16V Q815 2SD773 → 2SC403C	P: 10481 ~ S: 10011 ~
※2	C1025 0.001 → 0.0022	P: 10631 ~ S: 10011 ~

YC-14(4/4)

CHROMA DEMODULATOR

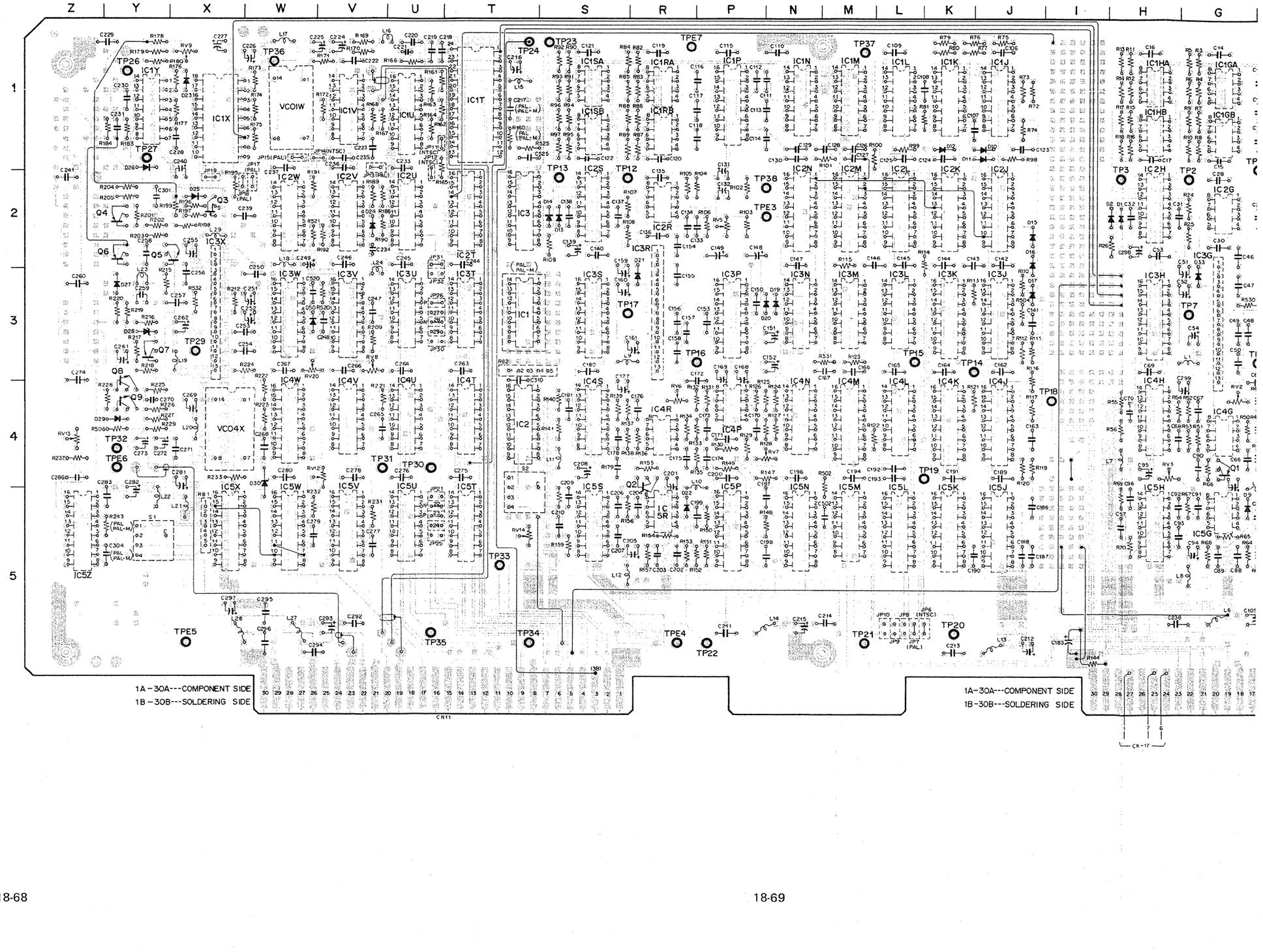
1-611-519-15

BVW-40P

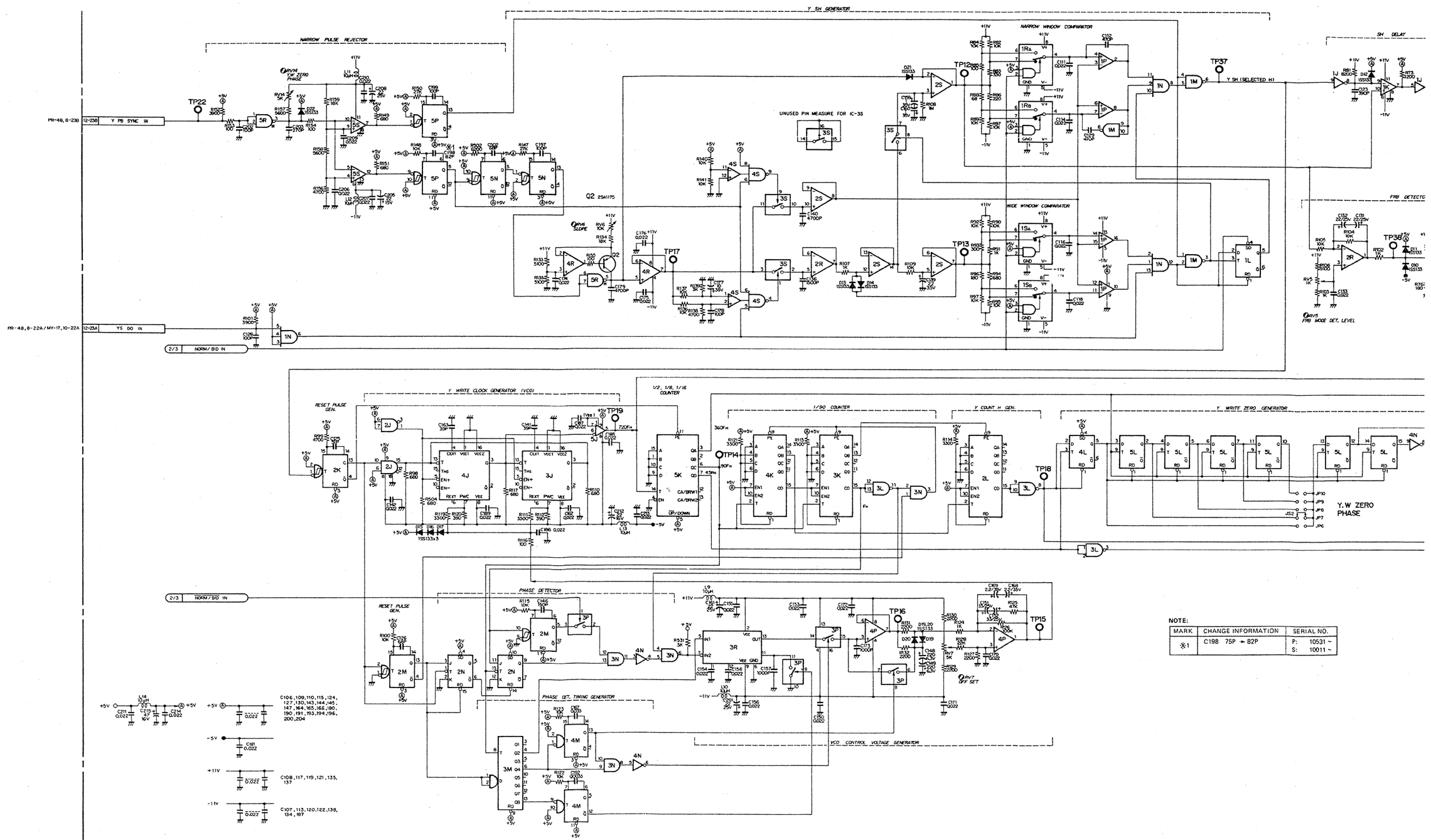
BVW-40S

CK-14 (VIDEO TBC)

Ref. No.	Type	Pin No. −11V	5V	GND	+5V	+11V
IC 1	SN74LS74AN			7	14	
IC 1B	SN74LS123N			8	16	
IC 1C	SN74LS74AN			7	14	
IC 1D	SN74LS00N			7	14	
IC 1E	SN74LS11N			7	14	
IC 1F	HA1 - 1905 - 5	5		9	1	13
IC 1GA	TL601CP	5		1		8
IC 1GB	TL601CP	5		1		8
IC 1HA	TL601CP	5		1		8
IC 1HB	TL601CP	5		1		8
IC 1J	SN7406N			7	14	
IC 1K	μPC319C	6		3, 8		11
IC 1L	SN74LS74AN		7	14		
IC 1M	SN74LS00N			7	14	
IC 1N	SN74LS11N			7	14	
IC 1P	HA1 - 1905 - 5	5		9	1	13
IC 1RA	TL601CP	5		1		8
IC 1RB	TL601CP	5		1		8
IC 1SA	TL601CP	5		1		8
IC 1SB	TL601CP	5		1		8
IC 1T	CX773A			12	24	
IC 1U	HD10125		8	16	9	
IC 1V	SN74LS00N			7	14	
IC 1X	CX7902				2	
IC 1Y	μPC319C	6		3, 8		11
IC 2						
IC 2A	HD10121		8	16	9	
IC 2B	SN74LS221N			8	16	
IC 2C	SN74LS163AN			8	16	
IC 2D	SN74LS221N			8	16	
IC 2E	SN74LS112AN			8	16	
IC 2G	TL082CP	4				8
IC 2H	TL084CN	11				4
IC 2J	HD10121		8	16	9	
IC 2K	SN74LS221AN			8	16	
IC 2L	SN74LS163AN			8	16	
IC 2N	SN74LS221N			8	16	
IC 2N	SN74LS112AN			8	16	
IC 2R	TL082CP	4				8
IC 2S	TL084CN	11				4
IC 2T	SN74365AN			8	16	
IC 2U	SN7404N			7	14	
IC 2V	SN75262BN		13	7	14	
IC 2W	SN7405N			7	14	
IC 3	SN74LS123N			8	16	
IC 3A	MC10198L		8	1, 16		
IC 3B	SN74LS163AN			8	16	
IC 3C	SN7400N			7	14	
IC 3D	SN74LS161N			7	14	
IC 3E	SN74LS08N			7	14	
IC 3F	HH - 201 - 5	4		5		13
IC 3G	BX381	9		6		2
IC 3H	HH - 201 - 5	4		5		13
IC 3J	MC10198L		8	1, 16		
IC 3K	SN74LS163AN			8	16	
IC 3L	SN7400N			7	14	
IC 3M	SN74LS161N			7	14	
IC 3N	SN74LS08N			7	14	
IC 3P	HH - 201 - 5	4		5		13
IC 3R	BX381	9		6		2
IC 3S	HH - 201 - 5	4		5		13
IC 3T	SN74LS161N			7	14	
IC 3U	SN74LS161N			7	14	
IC 3V	SN74LS221N			8	16	
IC 3W	SN71265N			8	16	
IC 3X	BX381	9		6		2
IC 4A	MC10198L		8	1, 16		
IC 4B	SN74LS163N			8	16	
IC 4C	SN74LS74AN			7	14	
IC 4D	SN74LS123N			8	16	
IC 4E	SN74LS01N			7	14	
IC 4F	μPC4557C	4				8
IC 4G	NJM4560D	4				8
IC 4H	SN75207BN		13	7	14	
IC 4J	MC10198L		8	1, 16		
IC 4K	SN74LS163N			8	16	
IC 4L	SN74LS74AN			7	14	
IC 4M	SN74LS123N			8	16	
IC 4N	SN74LS01N			7	14	
IC 4P	μPC4557C	4				8
IC 4R	NJM4560D	4				8
IC 4S	SN75207BN		13	7	14	
IC 4T	SN74LS161N			7	14	
IC 4U	SN74LS00N			7	14	
IC 4V	SN7404N			7	14	
IC 4W	SN74LS163AN			8	16	
IC 5A	HD10125		8	16	9	
IC 5B	SN74191N			8	16	
IC 5C	SN74LS174N			8	16	
IC 5D	SN74S51N			7	14	
IC 5E	SN74LS221N			8	16	
IC 5F	SN74LS221N			8	16	
IC 5G	SN75452BP			;	8	
IC 5H	μPC319C	6		3, 8		11
IC 5J	HD10125		8	16	9	
IC 5K	SN74191N			8	16	
IC 5L	SN74LS174N			8	16	
IC 5M	SN74S51N			7	14	
IC 5N	SN74LS221N			8	16	
IC 5P	SN74LS221N			8	16	
IC 5R	SN75452BP			;	8	
IC 5S	μPC319C	6		3, 8		11
IC 5T	SN74LS161N			7	14	
IC 5U	SN74S51N			7	14	
IC 5V	SN74LS221N			8	16	
IC 5W	SN74LS163AN			8	16	
IC 5X	SN74S163N			8	16	
IC 5Z	SN74LS221N			8	16	



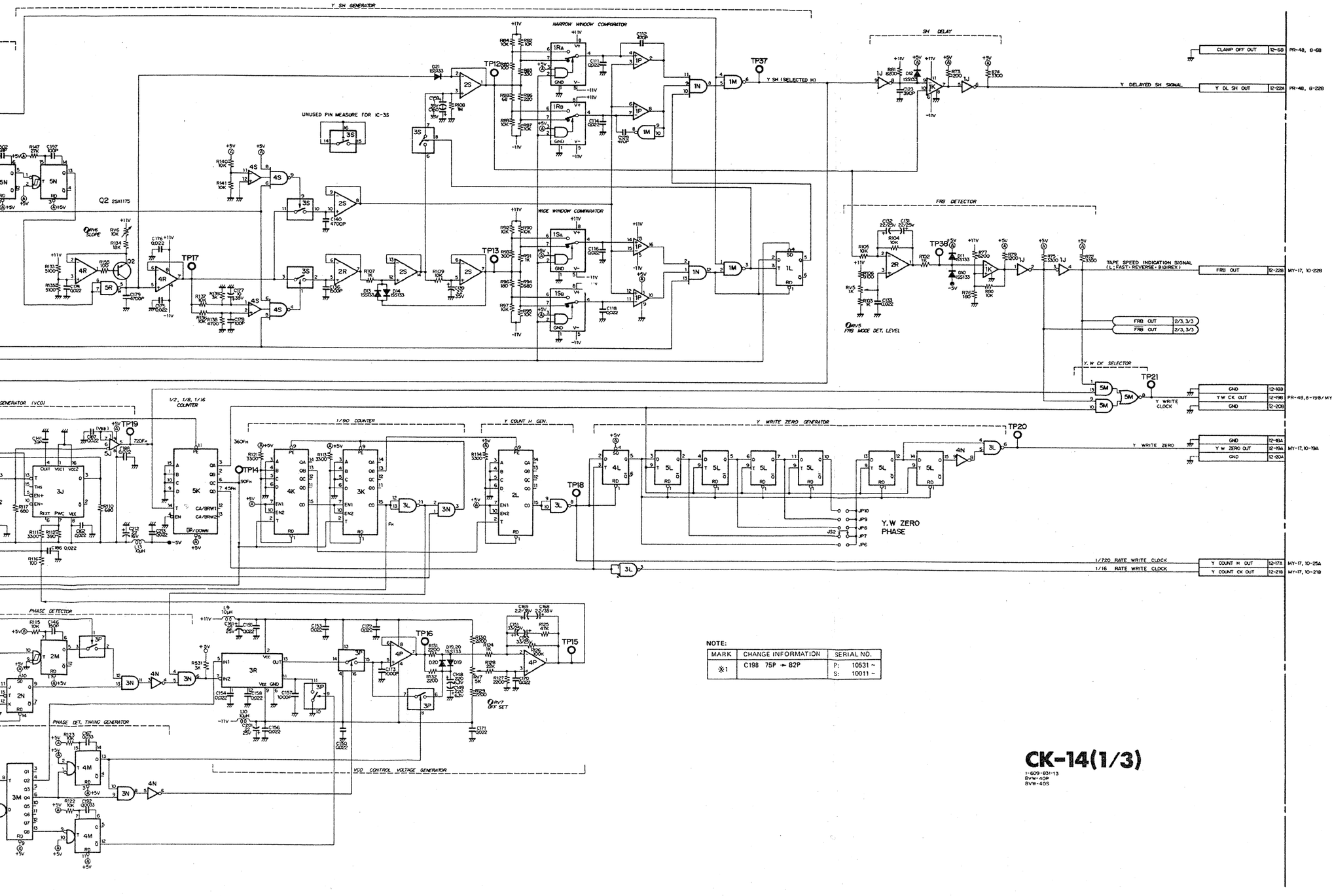
CK-14 (1/3) (VIDEO TBC)



NOTE:

MARK	CHANGE INFORMATION	SERIAL NO.
※1	C198 75P → 82P	P: 10531 ~ S: 10011 ~

CK-14 (1/3)



NOTE:

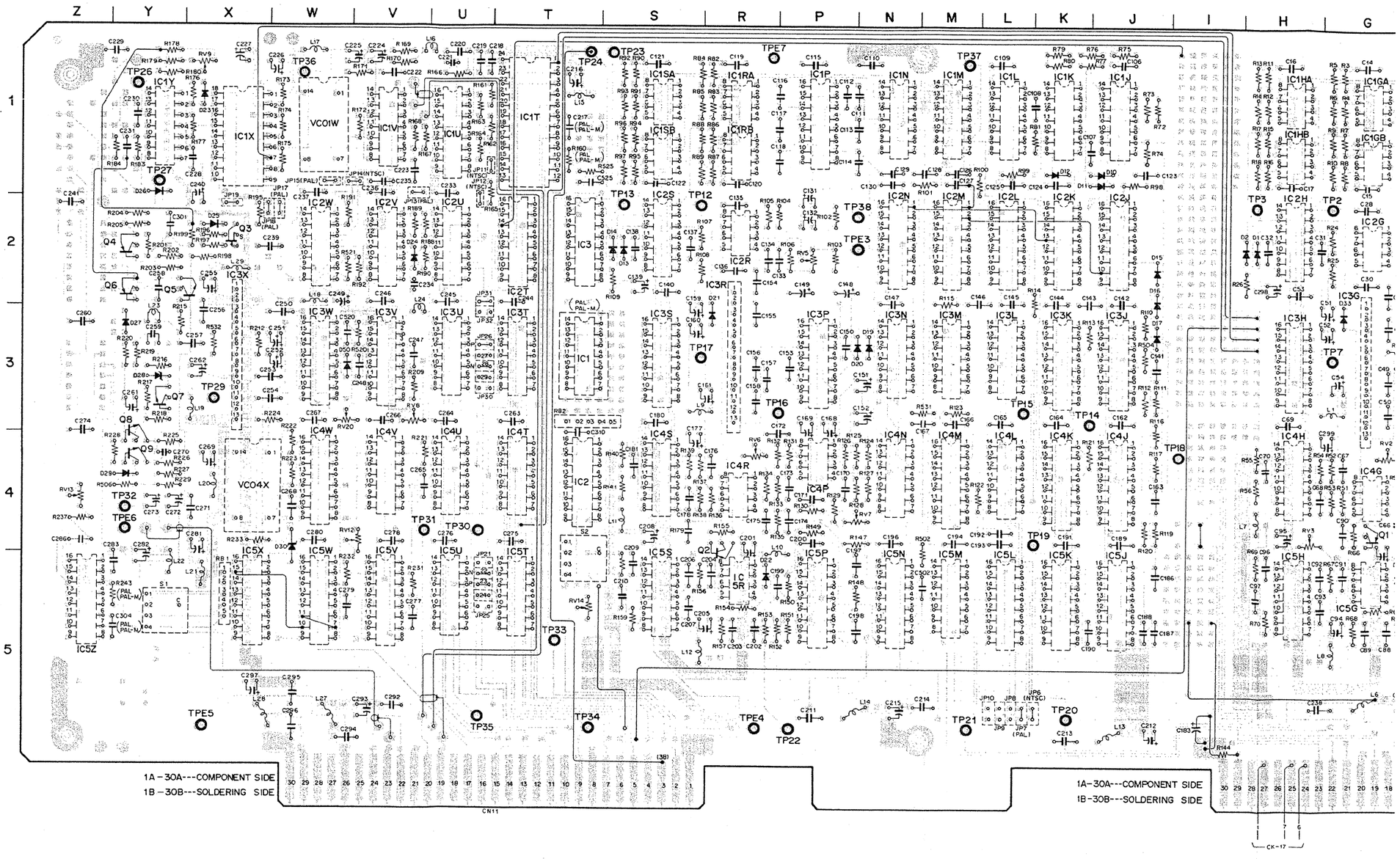
MARK	CHANGE INFORMATION	SERIAL NO.
※1	C198 75P → 82P	P: 10531 ~ S: 10011 ~

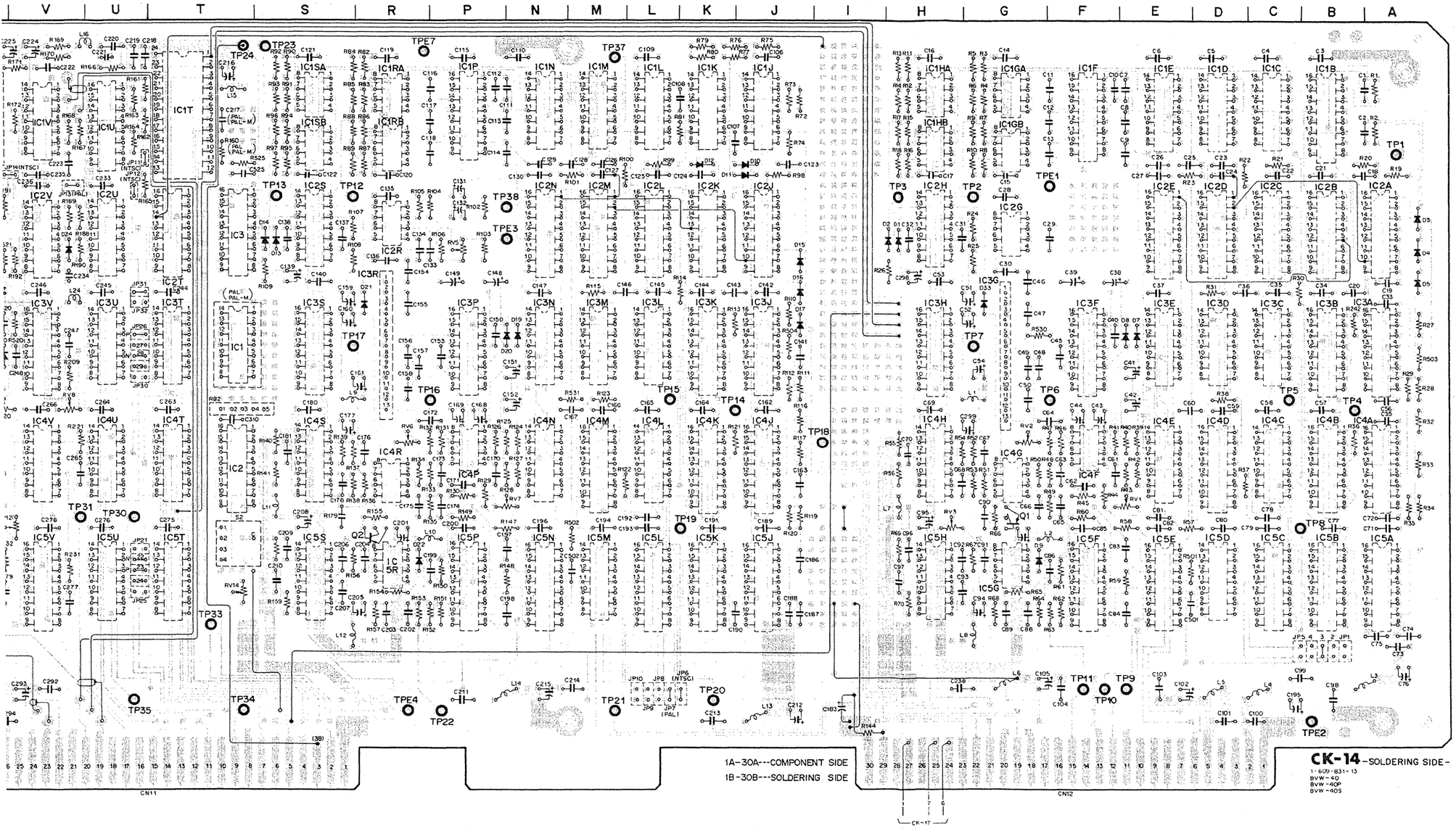
CK-14(1/3)

1-609-031-13
BVW-40P
BVW-40S

CK-14 (VIDEO TBC)

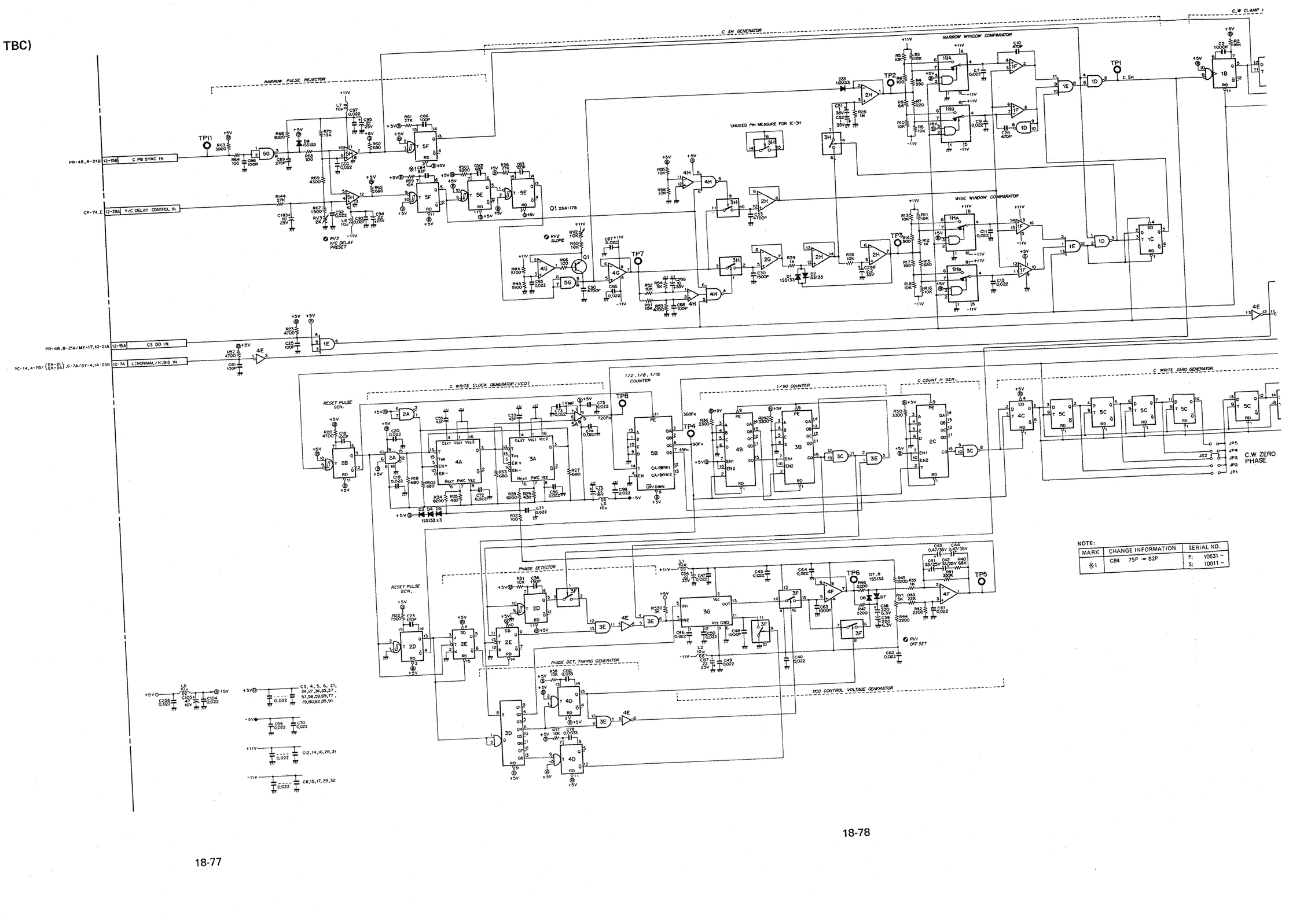
Ref. No.	Type	Pin No. -11V	5V	GND	+5V	+11V
IC 1	SN74LS74AN			7	14	
IC 1B	SN74LS123N			8	16	
IC 1C	SN74LS74AN			7	14	
IC 1D	SN74LS00N			7	14	
IC 1E	SN74LS14N			7	14	
IC 1F	HA1-1905-5		5		9	1	13
IC 1GA	TL601CP		5		1		8
IC 1GB	TL601CP		5		1		8
IC 1HA	TL601CP		5		1		8
IC 1HB	TL601CP		5		1		8
IC 1J	SN7406N				7	14	
IC 1K	μPC319C		6		3, 8		11
IC 1L	SN74LS74AN			7	14		
IC 1M	SN74LS00N				7	14	
IC 1N	SN74LS14N				7	14	
IC 1P	HA1-1905-5		5		9	1	13
IC 1RA	TL601CP		5		1		8
IC 1RB	TL601CP		5		1		8
IC 1SA	TL601CP		5		1		8
IC 1SB	TL601CP		5		1		8
IC 1T	CX772A				12	21	
IC 1U	HD10125			8	16	9	
IC 1V	SN74LS00N				7	14	
IC 1X	CX7903					2	
IC 1Y	μPC319C		6		3, 8		11
IC 2							
IC 2A	HD10121			8	16	9	
IC 2B	SN74LS221N				8	16	
IC 2C	SN74LS163AN				8	16	
IC 2D	SN74LS221N				8	16	
IC 2E	SN74LS112AN				8	16	
IC 2G	TL082CP	1					8
IC 2H	TL081CN	11					4
IC 2J	HD10121			8	16	9	
IC 2K	SN74LS221N				8	16	
IC 2L	SN74LS163AN				8	16	
IC 2M	SN74LS221N				8	16	
IC 2N	SN74LS112AN				8	16	
IC 2R	TL082CP	1					8
IC 2S	TL081CN	11					4
IC 2T	SN74365AN				8	16	
IC 2U	SN7401N				7	14	
IC 2V	SN75207BN			13	7	14	
IC 2W	SN7406N				7	14	
IC 3	SN74LS123N				8	16	
IC 3A	MC10198L			8	1, 16		
IC 3B	SN74LS163AN				8	16	
IC 3C	SN7400N				7	14	
IC 3D	SN74LS161N				7	14	
IC 3E	SN74LS08N				7	14	
IC 3F	HI1-201-5	1			5		13
IC 3G	BX381	9			6		2
IC 3H	HI1-201-5	1			5		13
IC 3J	MC10198L			8	1, 16		
IC 3K	SN74LS163AN				8	16	
IC 3L	SN7400N				7	14	
IC 3M	SN74LS161N				7	14	
IC 3N	SN74LS08N				7	14	
IC 3P	HI1-201-5	1			5		13
IC 3R	BX381	9			6		2
IC 3S	HI1-201-5	1			5		13
IC 3T	SN74LS161N				7	14	
IC 3U	SN74LS161N				7	14	
IC 3V	SN74LS221N				8	16	
IC 3X	BX381	9			6		2
IC 4A	MC10198L			8	1, 16		
IC 4B	SN74LS163N				8	16	
IC 4C	SN74LS74AN				7	14	
IC 4E	SN74LS01N				7	14	
IC 4F	μPC1557C	1					8
IC 4G	NJM1560D	4					8
IC 4H	SN75207BN			13	7	14	
IC 4J	MC10198L			8	1, 16		
IC 4K	SN74LS163N				8	16	
IC 4L	SN74LS74AN				7	14	
IC 4M	SN74LS123N				8	16	
IC 4N	SN74LS01N				7	14	
IC 4P	μPC1557C	1					8
IC 4R	NJM1560D	4					8
IC 4S	SN75207BN			13	7	14	
IC 4T	SN74LS161N				7	14	
IC 4U	SN74LS00N				7	14	
IC 4V	SN74LS04N				7	14	
IC 4W	SN74LS163AN				8	16	
IC 5A	HD10125			8	16	9	
IC 5B	SN74191N				8	16	
IC 5C	SN74LS174N				8	16	
IC 5D	SN74S51N				7	14	
IC 5E	SN74LS221N				8	16	
IC 5F	SN74LS221N				8	16	
IC 5G	SN75152BP				1	8	
IC 5H	μPC319C	6			3, 8		11
IC 5J	HD10125			8	16	9	
IC 5K	SN74191N				8	16	
IC 5L	SN74LS174N				8	16	
IC 5M	SN74S51N				7	14	
IC 5N	SN74LS221N				8	16	
IC 5P	SN74LS221N				8	16	
IC 5R	SN75152BP				1	8	
IC 5S	μPC319C	6			3, 8		11
IC 5T	SN74LS164N				7	14	
IC 5U	SN74S51N				7	14	
IC 5V	SN74LS221N				8	16	
IC 5W	SN74LS163AN				8	16	
IC 5X	SN74S163N				8	16	
IC 5Z	SN74LS221N				8	16	





D1	H - 2
D2	H - 2
D3	A - 2
D4	A - 2
D5	A - 2
D7	E - 3
D8	E - 3
D9	G - 1
D10	G - 1
D11	J - 1
D12	K - 1
D13	S - 2
D14	S - 2
D15	J - 2
D16	J - 3
D17	J - 3
D19	V - 3
D20	V - 3
D21	R - 3
D22	R - 3
D23	V - 1
D24	V - 2
D25	V - 2
D26	V - 2
D27	V - 3
D28	V - 3
D29	V - 1
D30	W - 1
D33	G - 3
D50	V - 3
IC1	T - 3
IC2	T - 1
IC3	T - 2
Q1	G - 1
Q2	R - 1
RV1	E - 1
RV2	G - 1
RV3	H - 1
RV5	P - 2
RV6	R - 1
RV7	N - 1
RV8	V - 3
RV9	X - 1
RV12	W - 1
RV13	Z - 1
RV14	T - 5
RV20	V - 3
S1	Y - 5
S2	T - 5
TP1	A - 1
TP2	G - 2
TP3	H - 2
TP4	B - 3
TP5	C - 3
TP6	F - 3
TP7	G - 3
TP8	C - 1
TP9	E - 5
TP10	F - 5
TP11	F - 5
TP12	R - 2
TP13	S - 2
TP14	K - 3
TP15	L - 3
TP16	P - 3
TP17	S - 3
TP18	I - 4
TP19	K - 1
TP20	K - 5
TP21	M - 5
TP22	P - 5
TP23	S - 1
TP24	T - 1
TP25	Y - 1
TP26	Y - 1
TP27	Y - 1
TP29	W - 3
TP30	U - 1
TP31	V - 1
TP32	Y - 1
TP33	T - 5
TP34	T - 5
TP35	U - 5
TP36	W - 1
TP37	M - 1
TP38	N - 2
TPE1	F - 1
TPE2	B - 5
TPE3	N - 2
TPE4	R - 5
TPE5	X - 5
TPE6	Y - 1

CK-14 (2/3) (VIDEO TBC)



NOTE:

MARK	CHANGE INFORMATION	SERIAL NO.
※1	C84 75P → 82P	P: 10531 ~ S: 10011 ~

CK-14 (2/3)

C SH GENERATOR

NARROW WINDOW COMPARATOR

WIDE WINDOW COMPARATOR

UNUSED PIN MEASURE FOR IC-3H

C.W CLAMP PULSE GENERATOR

CLAMP PULSE FOR A/D INPUT CHROMA SIGNAL

CW CLAMP OUT 12-14A PR-48,8-25A

NORMAL / BIDIREX PLAY MODE INDICATION SIGNAL

NORM/BID OUT 12-6A PR-48,8-6A/MY-17,10-6A

NORM/BID OUT 1/3

FRB IN 1/3

TP10 CHROM WRITE CLOCK

GND 12-11B

CW CK OUT 12-12B PR-40,8-12D/MY-17,10-12B

GND 12-13B

C WRITE CLOCK GENERATOR (VCO)

1/2 , 1/8 , 1/16 COUNTER

1/90 COUNTER

C COUNT H GEN.

C WRITE ZERO GENERATOR

TP8

TP4

TP9

CHROMA WRITE ZERO

GND 12-11A

CW ZERO OUT 12-12A MY-17,10-12A

GND 12-13A

JP5 JP4 JP3 JP2 JP1 C.W ZERO PHASE

PHASE DETECTOR

PHASE DET. TIMING GENERATOR

VCO CONTROL VOLTAGE GENERATOR

TP6

TP5

RV1 OFF SET

NOTE:

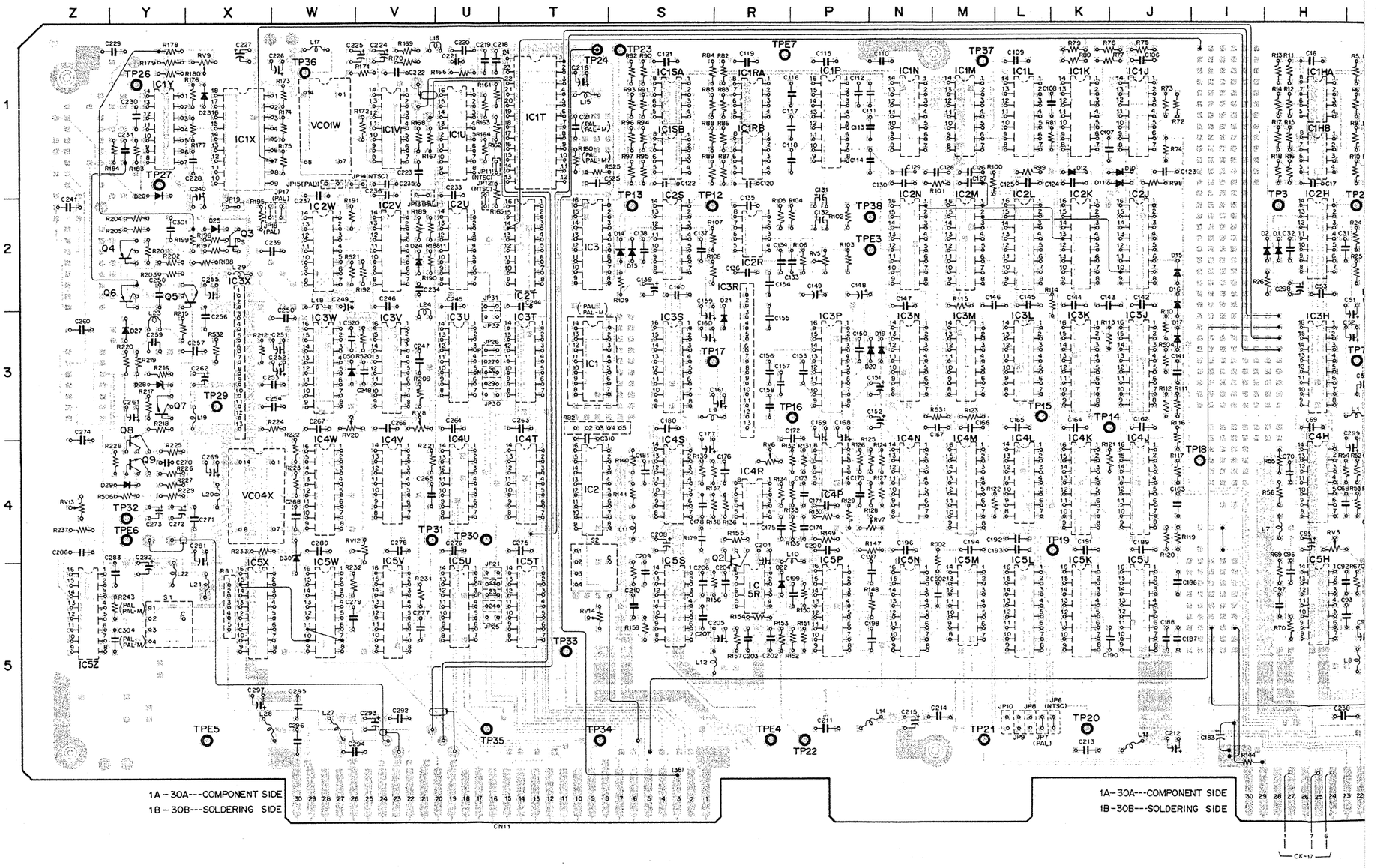
MARK	CHANGE INFORMATION	SERIAL NO.
※1	C84 75P → 82P	P: 10531 ~ S: 10011 ~

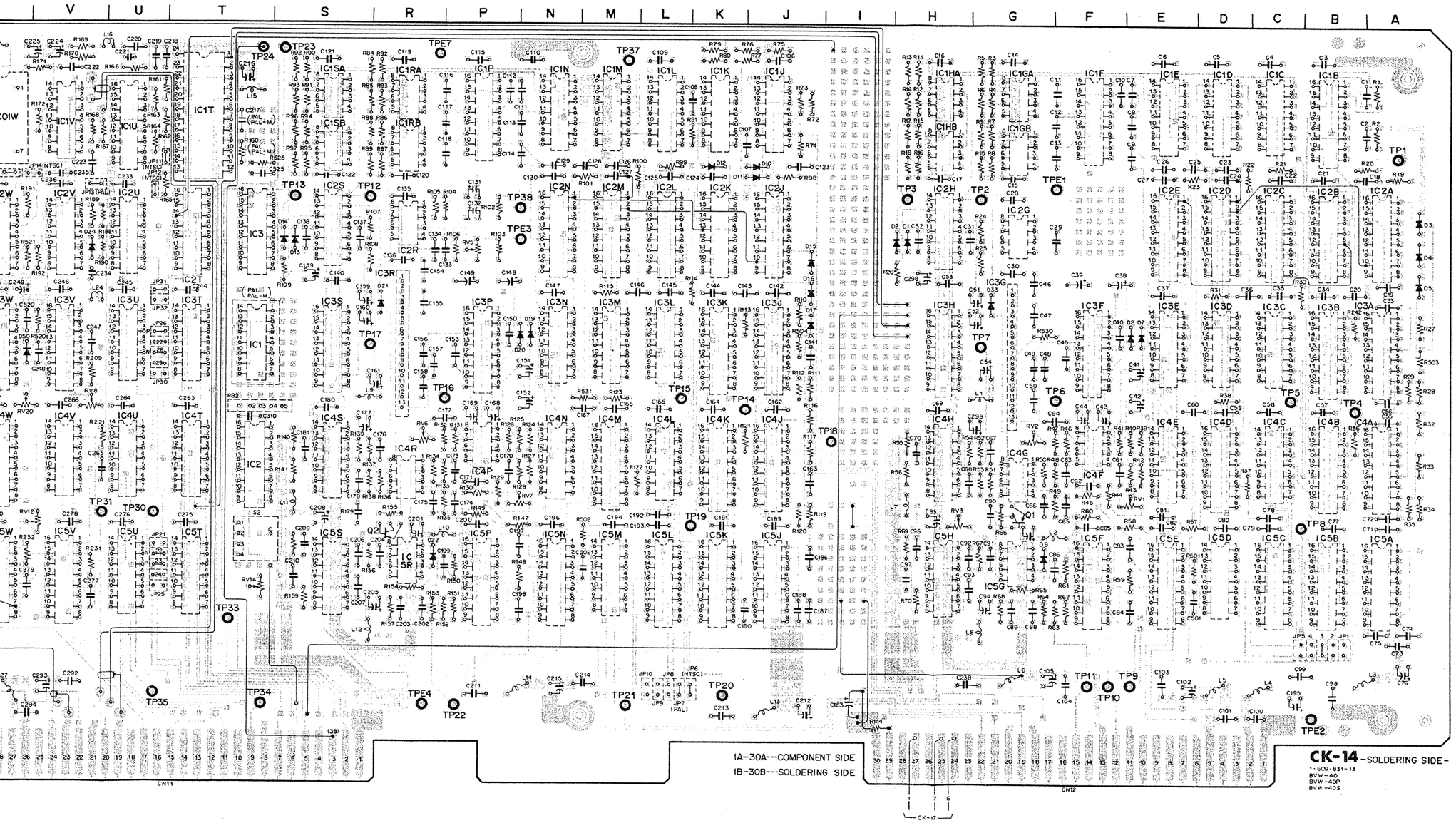
CK-14(2/3)

1-609-831-13
8VW-40P
8VW-40S

CK-14 (VIDEO TBC)
CK-17

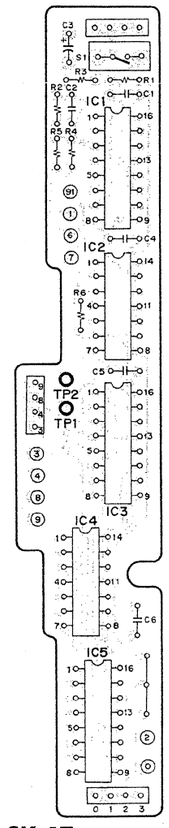
Ref. No.	Type	Pin No.				
		−11V	−5V	GND	+5V	+11V
IC 1	SN74LS74AN			7	14	
IC 1B	SN74LS123N			8	16	
IC 1C	SN74LS74AN			7	14	
IC 1D	SN74LS00N			7	14	
IC 1E	SN74LS11N			7	14	
IC 1F	HA1 - 1905 - 5	5		9	1	13
IC 1GA	TL501CP	5		1		8
IC 1GB	TL691CP	5		1		8
IC 1HA	TL601CP	5		1		8
IC 1HB	TL601CP	5		1		8
IC 1J	SN7406N			7	14	
IC 1K	μPC319C	6		3, 8		11
IC 1L	SN74LS74AN		7	14		
IC 1M	SN74LS00N			7	14	
IC 1N	SN74LS11N			7	14	
IC 1P	HA1 - 1905 - 5	5		9	1	13
IC 1RA	TL501CP	5		1		8
IC 1RB	TL601CP	5		1		8
IC 1SA	TL601CP	5		1		8
IC 1SB	TL601CP	5		1		8
IC 1T	CX773A			12	21	
IC 1U	HD10125		8	16	9	
IC 1V	SN74LS00N			7	14	
IC 1X	CX7903				2	
IC 1Y	μPC319C	6		3, 8		11
IC 2						
IC 2A	HD10121		8	16	9	
IC 2B	SN74LS221N			8	16	
IC 2C	SN74LS163AN			8	16	
IC 2D	SN74LS221N			8	16	
IC 2E	SN74LS112AN			8	16	
IC 2G	TL082CP	4				8
IC 2H	TL081CN	11				4
IC 2J	HD10121		8	16	9	
IC 2K	SN74LS22AN			8	16	
IC 2L	SN74LS163AN			8	16	
IC 2M	SN74LS221N			8	16	
IC 2N	SN74LS112AN			8	16	
IC 2R	TL082CP	4				8
IC 2S	TL081CN	11				4
IC 2T	SN7486AN			8	16	
IC 2U	SN7401N			7	14	
IC 2V	SN75207BN		13	7	11	
IC 2W	SN7406N			7	11	
IC 3	SN74LS123N			8	16	
IC 3A	MC10198L		8	1, 16		
IC 3B	SN74LS163AN			8	16	
IC 3C	SN7400N			7	14	
IC 3D	SN74LS161N			7	11	
IC 3E	SN74LS08N			7	14	
IC 3F	HH - 201 - 5	1		5		13
IC 3G	BX381	9		6		2
IC 3H	HH - 201 - 5	1		5		13
IC 3J	MC10198L		8	1, 16		
IC 3K	SN74LS163AN			8	16	
IC 3L	SN7400N			7	14	
IC 3M	SN74LS161N			7	11	
IC 3N	SN74LS08N			7	14	
IC 3P	HH - 201 - 5	1		5		13
IC 3R	BX381	9		6		2
IC 3S	HH - 201 - 5	1		5		13
IC 3T	SN74LS161N			7	11	
IC 3U	SN74LS161N			7	11	
IC 3V	SN74LS221N			8	16	
IC 3W	SN7486N			7	14	
IC 3X	BX381	9		6		2
IC 4A	MC10198L		8	1, 16		
IC 4B	SN74LS163N			8	16	
IC 4C	SN74LS74AN			7	11	
IC 4D	SN74LS123N			8	16	
IC 4E	SN74LS01N			7	11	
IC 4F	μPC4557C	4				8
IC 4G	NJM14560D	1				8
IC 4H	SN75207BN		13	7	11	
IC 4J	MC10198L		8	1, 16		
IC 4K	SN74LS163N			8	16	
IC 4L	SN74LS74AN			7	14	
IC 4M	SN74LS123N			8	16	
IC 4N	SN74LS00N			7	14	
IC 4P	μPC4557C	4				8
IC 4R	NJM14560D	1				8
IC 4S	SN75207BN		13	7	11	
IC 4T	SN74LS161N			7	11	
IC 4U	SN74LS00N			7	14	
IC 4V	SN7401N			7	11	
IC 4W	SN74LS163AN			8	16	
IC 5A	HD10125		8	16	9	
IC 5B	SN74191N			8	16	
IC 5C	SN74LS74AN			7	14	
IC 5D	SN74S51N			7	11	
IC 5E	SN74LS221N			8	16	
IC 5F	SN74LS221N			8	16	
IC 5G	SN75452BP			1	8	
IC 5H	μPC319C	6		3, 8		11
IC 5J	HD10125		8	16	9	
IC 5K	SN74191N			8	16	
IC 5L	SN74LS74AN			7	14	
IC 5M	SN74S51N			7	11	
IC 5N	SN74LS221N			8	16	
IC 5P	SN74LS221N			8	16	
IC 5R	SN75452BP			1	8	
IC 5S	μPC319C	6		3, 8		11
IC 5T	SN74LS161N			7	11	
IC 5U	SN74S51N			7	11	
IC 5V	SN74LS221N			8	16	
IC 5W	SN74LS163AN			8	16	
IC 5X	SN74S163N			8	16	
IC 5Z	SN74LS221N			8	16	





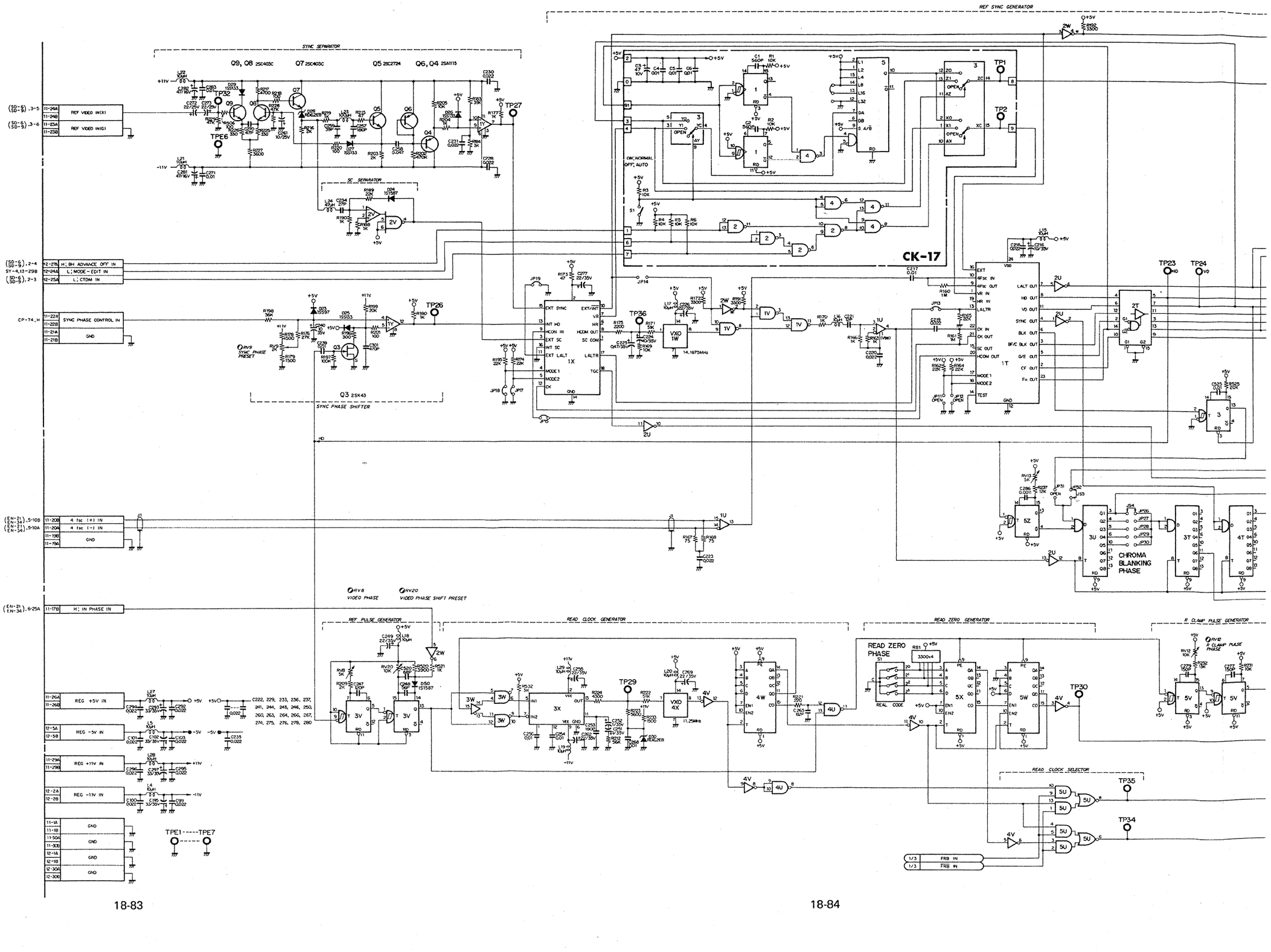
CK-14-SOLDERING SIDE-
1-609-831-13
BVW-40
BVW-40P
BVW-40S

D1	H-2
D2	H-2
D3	A-2
D4	A-2
D5	A-2
D7	E-3
D8	E-3
D9	G-5
D10	J-1
D11	J-1
D12	K-1
D13	S-2
D14	S-2
D15	J-2
D16	J-2
D17	J-3
D19	N-3
D20	N-3
D21	R-3
D22	R-3
D23	N-1
D24	V-2
D25	V-2
D26	V-2
D27	V-3
D28	V-3
D29	V-1
D30	W-1
D33	G-3
D50	V-3
IC1	T-3
IC2	T-1
IC3	T-2
Q1	G-1
Q2	G-1
Q3	R-2
Q5	R-2
Q6	R-2
Q7	V-2
Q8	V-3
Q9	V-1
RV1	E-1
RV2	G-1
RV3	H-1
RV5	P-2
RV6	R-1
RV7	N-1
RV8	V-3
RV9	N-1
RV12	W-1
RV13	Z-1
RV11	T-5
RV20	V-3
S1	Y-5
S2	T-5
TP1	A-1
TP2	G-2
TP3	H-2
TP4	B-3
TP5	C-3
TP6	F-3
TP7	G-3
TP8	C-1
TP9	E-5
TP10	F-5
TP11	F-5
TP12	R-2
TP13	S-2
TP14	K-3
TP15	L-3
TP16	P-3
TP17	S-3
TP18	I-1
TP19	K-1
TP20	K-5
TP21	M-5
TP22	P-5
TP23	S-1
TP21	T-1
TP26	Y-1
TP27	Y-1
TP29	W-3
TP30	C-1
TP31	V-1
TP32	Y-1
TP33	T-5
TP34	T-5
TP35	U-5
TP36	W-1
TP37	M-1
TP38	N-2
TPE1	F-1
TPE2	B-5
TPE3	N-2
TPE1	R-5
TPE5	X-5
TPE6	Y-1



CK-17-COMPONENT SIDE-
1-612-015-14
BVW-40
BVW-40P
BVW-40S

CK-14 (3/3) (VIDEO TBC)



REF SYNC GENERATOR

CK-17

FIELD PULSE GENERATOR

H; INT/L; EXT OUT | 11-13A | (EN-21), (EN-34) .5-12A

FIELD PULSE

F PULSE OUT | 11-11B | (EN-21), (EN-34) .5-194/SV-55 .1-15B

LINE ALTERNATION SIGNAL

+V/-V OUT | 11-7A | (EN-21), (EN-34) .5-4A

FIELD O/E SIGNAL

HD OUT | 11-4A | MY-17, 9-4A
VD OUT | 11-5A | MY-17, 9-5A
BF OUT | 11-2A | (EN-34) .5-1B
FIELD O/E OUT | 11-6A | MY-17, 9-6A/ (EN-21), (EN-34) .6-23A
FH OUT | 11-3A | MY-17, 9-3A
FIRST FIELD PULSE | 11-15B | (EN-21), (EN-34) .6-15B

CHROMA CLAMPING INHIBIT SIGNAL

C-CLAMP INH OUT | 11-6D | (EN-21), (EN-34) .6-10A,B

BURST GATE PULSE

BG PULSE OUT | 11-14A | (EN-21), (EN-34) .5-12B

Y DIGITAL BLANKING SIGNAL

YD BLKG OUT | 11-5B | MY-17, 9-5B

REF SYNC OUT | 11-15A | (EN-21), (EN-34) .5-13B

CHROMA BLANKING SIGNAL

C BLKG OUT | 11-4B | (EN-21), (EN-34) .5-1A

CLAMP PULSE FOR D/A OUTPUT VIDEO

R CLAMP OUT | 11-2B | PR-48, 8-25B

READ ZERO

R ZERO OUT | 11-7B | PR-48, 7-10B/MY-17, 9-7B/ (EN-21), (EN-34) .5-2A

READ CLOCK

R CK OUT | 11-9A | MY-17, 9-9A
GND | 11-8A

1/2 RATE READ CLOCK

1/2 R CK OUT | 11-9B | MY-17, 9-9B/PR-48, 7-9B
GND | 11-8B

1/3 FRB IN
1/3 FRB IN

READ CLOCK GENERATOR

READ ZERO GENERATOR

R CLAMP PULSE GENERATOR

READ CLOCK SELECTOR

RV20 VIDEO PHASE SHIFT PRESET

RV12 R CLAMP PULSE PHASE

READ ZERO PHASE

REF SYNC PHASE

CHROMA BLANKING PHASE

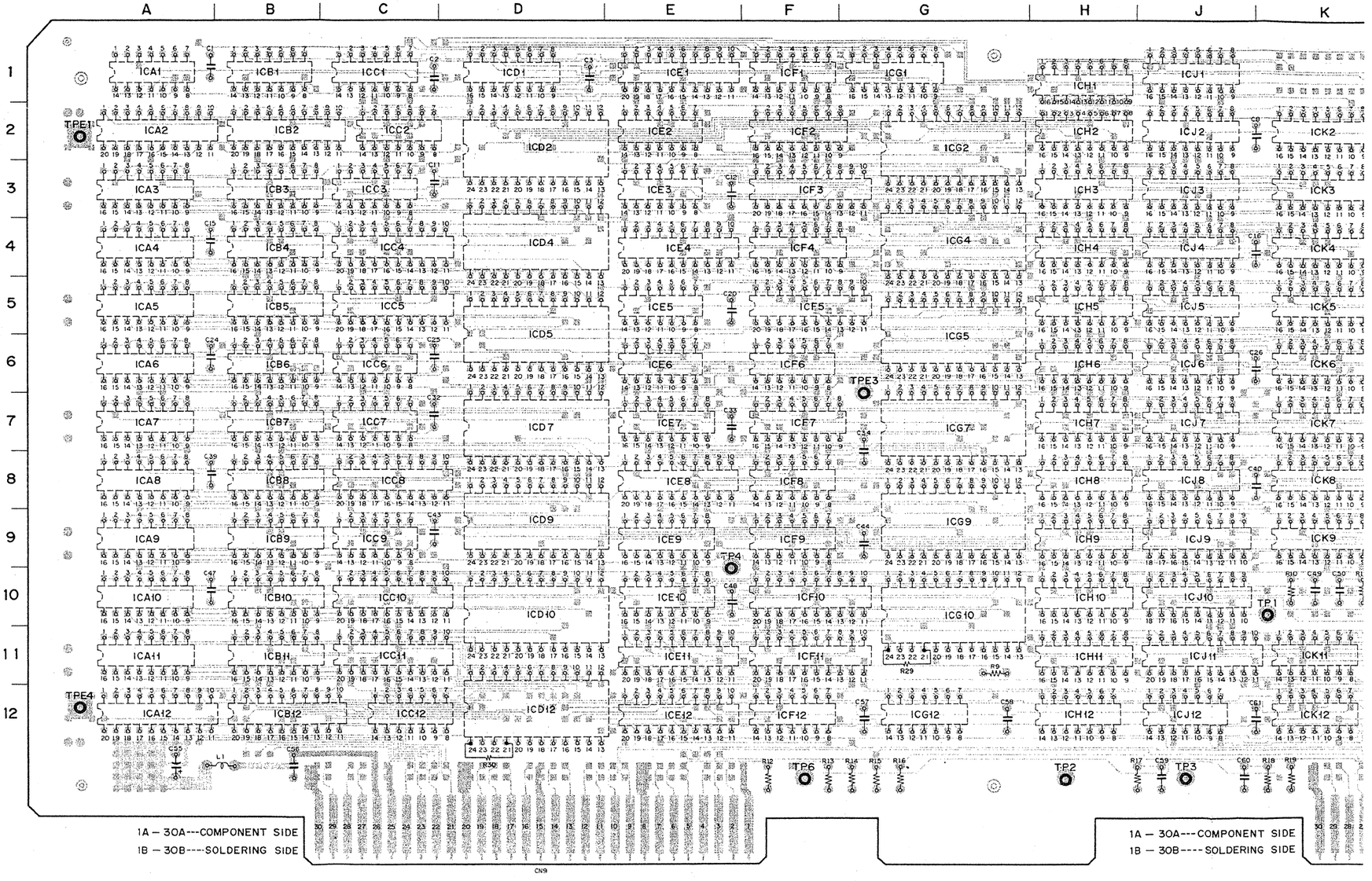
CK-14(3/3)

1-609-831-13
BVW-40P
BVW-40S

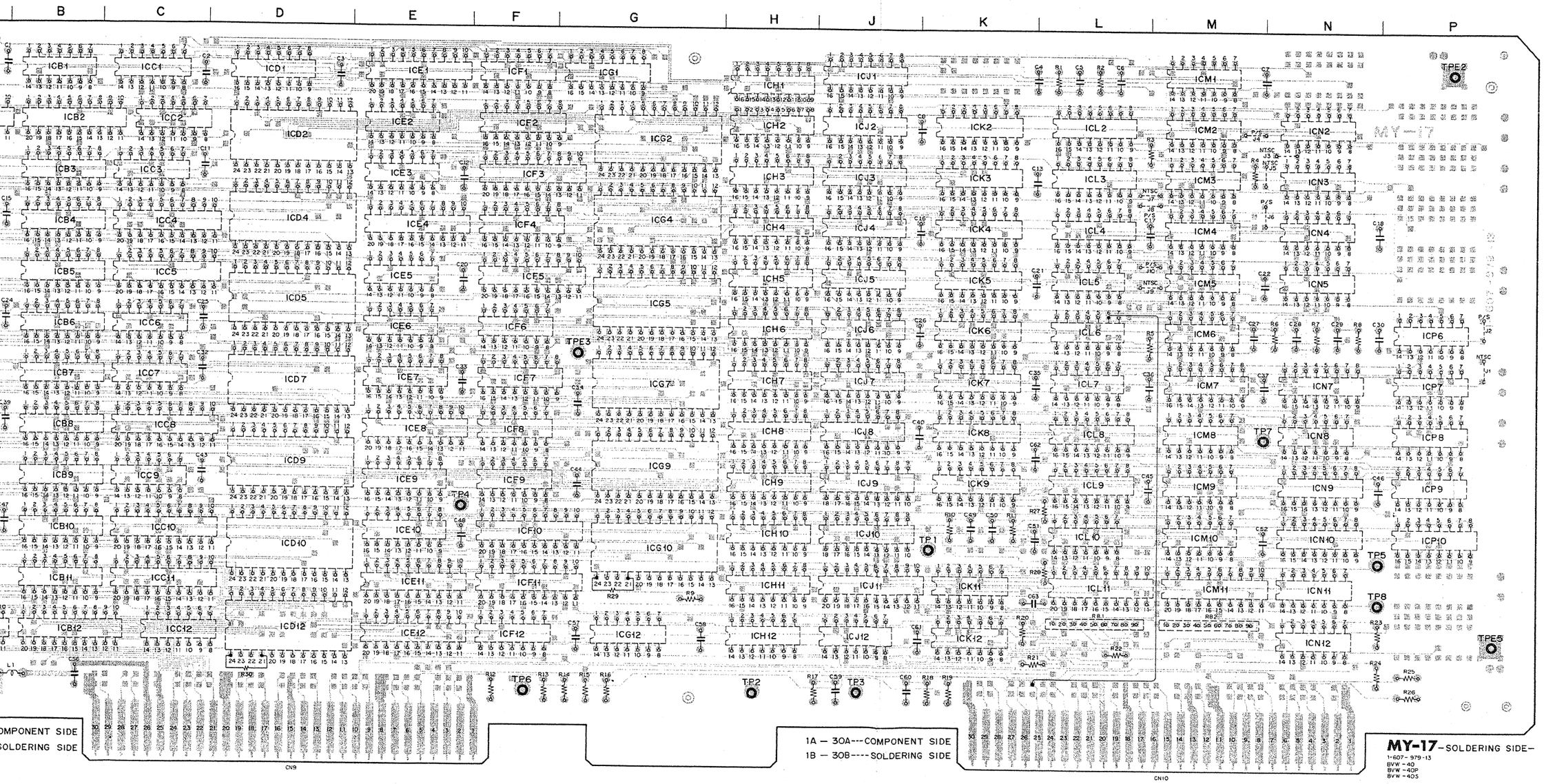
MY-17 (VIDEO TBC)

Ref. No.	Type	Pin No. GND	Pin No. +5V
IC A1	SN74LS164N	7	14
IC A2	SN74LS374N	10	20
IC A3	SN74LS166AN	8	16
IC A4	SN74LS166AN	8	16
IC A5	SN74LS166AN	8	16
IC A6	SN74LS166AN	8	16
IC A7	SN74LS166AN	8	16
IC A8	SN74LS166AN	8	16
IC A9	SN74LS166AN	8	16
IC A10	SN74LS166AN	8	16
IC A11	SN74LS166AN	8	16
IC A12	SN74LS374N	10	20
IC B1	SN74LS164N	7	14
IC B2	SN74LS374N	10	20
IC B3	SN74LS166AN	8	16
IC B4	SN74LS166AN	8	16
IC B5	SN74LS166AN	8	16
IC B6	SN74LS166AN	8	16
IC B7	SN74LS166AN	8	16
IC B8	SN74LS166AN	8	16
IC B9	SN74LS166AN	8	16
IC B10	SN74LS166AN	8	16
IC B11	SN74LS166AN	8	16
IC B12	SN74LS374N	10	20
IC C1	SN74LS164N	7	14
IC C2	SN74LS164N	7	14
IC C3	SN74LS164N	7	14
IC C4	SN74LS374N	10	20
IC C5	SN74LS374N	10	20
IC C6	SN74LS164N	7	14
IC C7	SN74LS164N	7	14
IC C8	SN74LS374N	10	20
IC C9	SN74LS164N	7	14
IC C10	SN74LS374N	10	20
IC C11	SN74LS374N	10	20
IC C12	SN74LS164N	7	14
IC D1	SN74LS166AN	8	16
IC D2	MSM5128-12RS	12	24
IC D4	MSM5128-12RS	12	24
IC D5	MSM5128-12RS	12	24
IC D7	MSM5128-12RS	12	24
IC D9	MSM5128-12RS	12	24
IC D10	MSM5128-12RS	12	24
IC D12	MSM5128-12RS	12	24
IC E1	SN74LS374N	10	20
IC E2	SN74LS164N	7	14
IC E3	SN74LS164N	7	14
IC E4	SN74LS374N	10	20
IC E5	SN74LS164N	7	14
IC E6	SN74LS164N	7	14
IC E7	SN74LS166AN	8	16
IC E8	SN74LS374N	10	20
IC E9	SN74LS166AN	8	16
IC E10	SN74LS166AN	8	16
IC E11	SN74LS374N	10	20
IC E12	SN74273N	10	20
IC F1	SN74LS164N	7	14
IC F2	SN74LS166AN	8	16
IC F3	SN74LS374N	10	20
IC F4	SN74LS166AN	8	16
IC F5	SN74LS374N	10	20
IC F6	SN74LS164N	7	14
IC F7	SN74LS166AN	8	16
IC F8	SN74LS164N	7	14
IC F9	SN74LS164N	7	14
IC F10	SN74LS374N	10	20
IC F11	SN74LS374N	10	20
IC F12	SN74LS04N	7	14
IC G1	SN74LS166AN	8	16
IC G2	MSM5128-12RS	12	24
IC G4	MSM5128-12RS	12	24
IC G5	MSM5128-12RS	12	24
IC G7	MSM5128-12RS	12	24
IC G9	MSM5128-12RS	12	24
IC G10	MSM5128-12RS	12	24
IC G12	SN74LS164N	7	14
IC H1	SN74LS161AN	8	16
IC H2	SN74LS157N	8	16
IC H3	SN74LS157N	8	16
IC H4	SN74LS157N	8	16
IC H5	SN74LS157N	8	16
IC H6	SN74LS161AN	8	16
IC H7	SN74LS157N	8	16
IC H8	SN74LS157N	8	16
IC H9	SN74LS163AN	8	16
IC H10	SN74LS163AN	8	16
IC H11	SN74LS163AN	8	16
IC H12	SN7404N	7	14

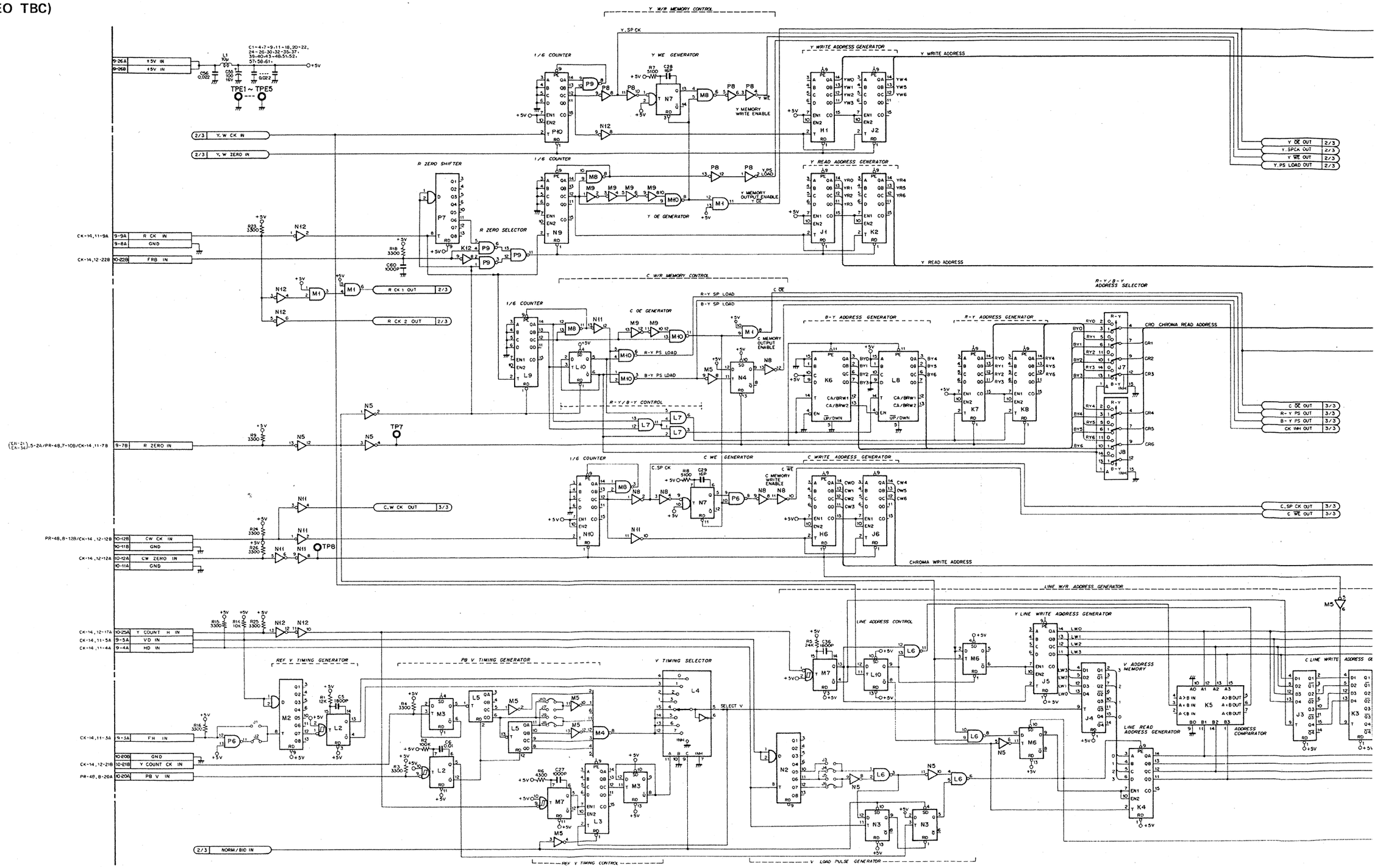
Ref. No.	Type	Pin No. GND	Pin No. +5V
IC J1	SN74LS161AN	8	16
IC J2	SN74LS161AN	8	16
IC J3	SN74LS175N	8	16
IC J4	SN74LS175N	8	16
IC J5	SN74LS163AN	8	16
IC J6	SN74LS161AN	8	16
IC J7	SN74LS157N	8	16
IC J8	SN74LS157N	8	16
IC J9	MBM2149L-55	9	18
IC J10	MBM2149L-55	9	18
IC J11	SN74LS374N	10	20
IC J12	SN74LS74AN	7	14
IC K2	SN74LS161AN	8	16
IC K3	SN74LS175N	8	16
IC K4	SN74LS163AN	8	16
IC K5	SN74LS85N	8	16
IC K6	SN74LS191N	8	16
IC K7	SN74LS161AN	8	16
IC K8	SN74LS161AN	8	16
IC K9	SN74LS123N	8	16
IC K11	SN74LS02N	7	14
IC K12	SN74LS04N	7	14
IC L2	SN74LS221N	8	16
IC L3	SN74LS161AN	8	16
IC L4	SN74LS151N	8	16
IC L5	SN74LS393N	7	14
IC L6	SN74LS00N	7	14
IC L7	SN74LS08N	7	14
IC L8	SN74LS191N	8	16
IC L9	SN74LS161AN	8	16
IC L10	SN74LS74AN	7	14
IC L11	SN74LS374N	10	20
IC M1	SN7408N	7	14
IC M2	SN74LS164N	7	14
IC M3	SN74LS74AN	7	14
IC M4	SN74LS30N	7	14
IC M5	SN74LS04N	7	14
IC M6	SN74LS74AN	7	14
IC M7	SN74LS221N	8	16
IC M8	SN74LS00N	7	14
IC M9	SN74LS04N	7	14
IC M10	SN7400N	7	14
IC M11	SN74LS374N	10	20
IC N2	SN74LS164N	7	14
IC N3	SN74LS74AN	7	14
IC N4	SN74LS74AN	7	14
IC N5	SN74LS04N	7	14
IC N7	SN74LS123N	8	16
IC N8	SN7404N	7	14
IC N9	SN74LS161AN	8	16
IC N10	SN74LS161AN	8	16
IC N11	SN74LS04N	7	14
IC N12	SN74LS04N	7	14
IC P6	SN74LS00N	7	14
IC P7	SN74LS164N	7	14
IC P8	SN7404N	7	14
IC P9	SN74LS00N	7	14
IC P10	SN74LS161AN	8	16



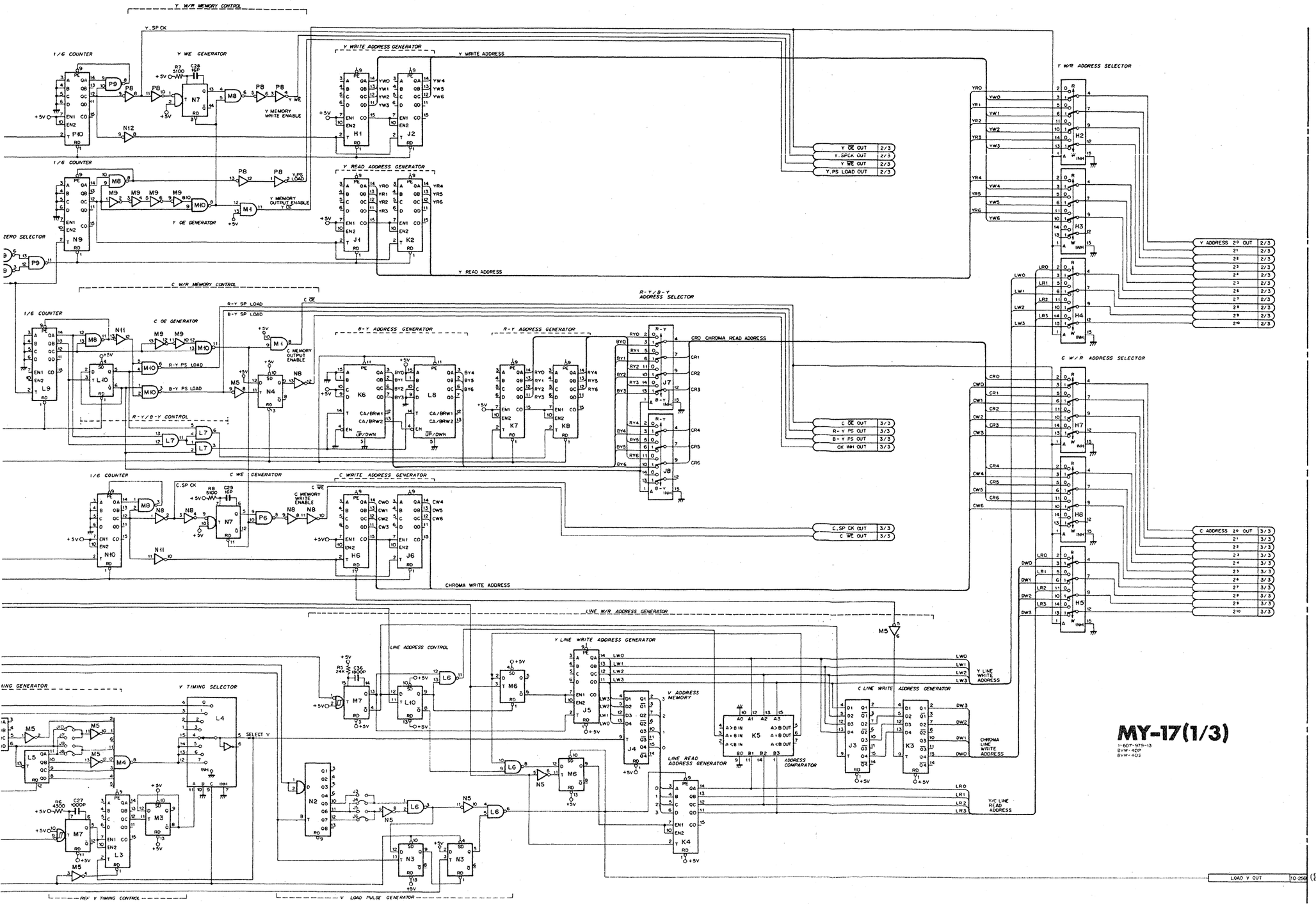
MY-17 MY-17


B C D E F G H J K L M N P
TP1 K - 10
TP2 H - 12
TP3 J - 12
TP4 E - 9
TP5 P - 11
TP6 F - 12
TP7 N - 8
TP8 P - 11
TPE1 A - 2
TPE2 P - 1
TPE3 G - 7
TPE4 A - 12
TPE5 P - 12
MY-17
1A — 30A---COMPONENT SIDE
1B — 30B----SOLDERING SIDE
CN9
CN10
MY-17 -SOLDERING SIDE-
1-607-979-13
BVW-40
BVW-40P
BVW-40S

MY-17 (1/3) (VIDEO TBC)



MY-17 (1/3)



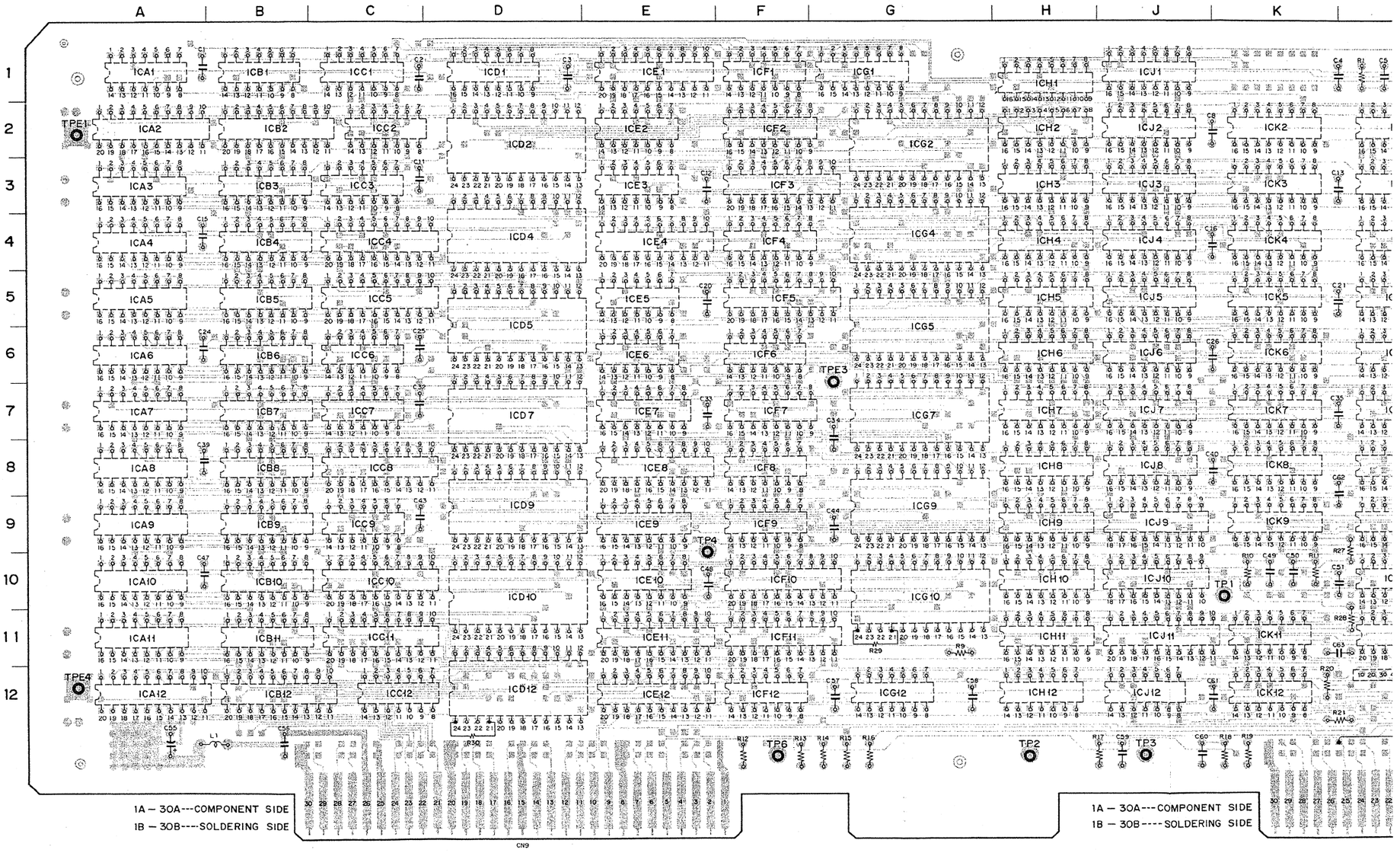
MY-17(1/3)

1-607-979-13
BVM-409
BVM-405

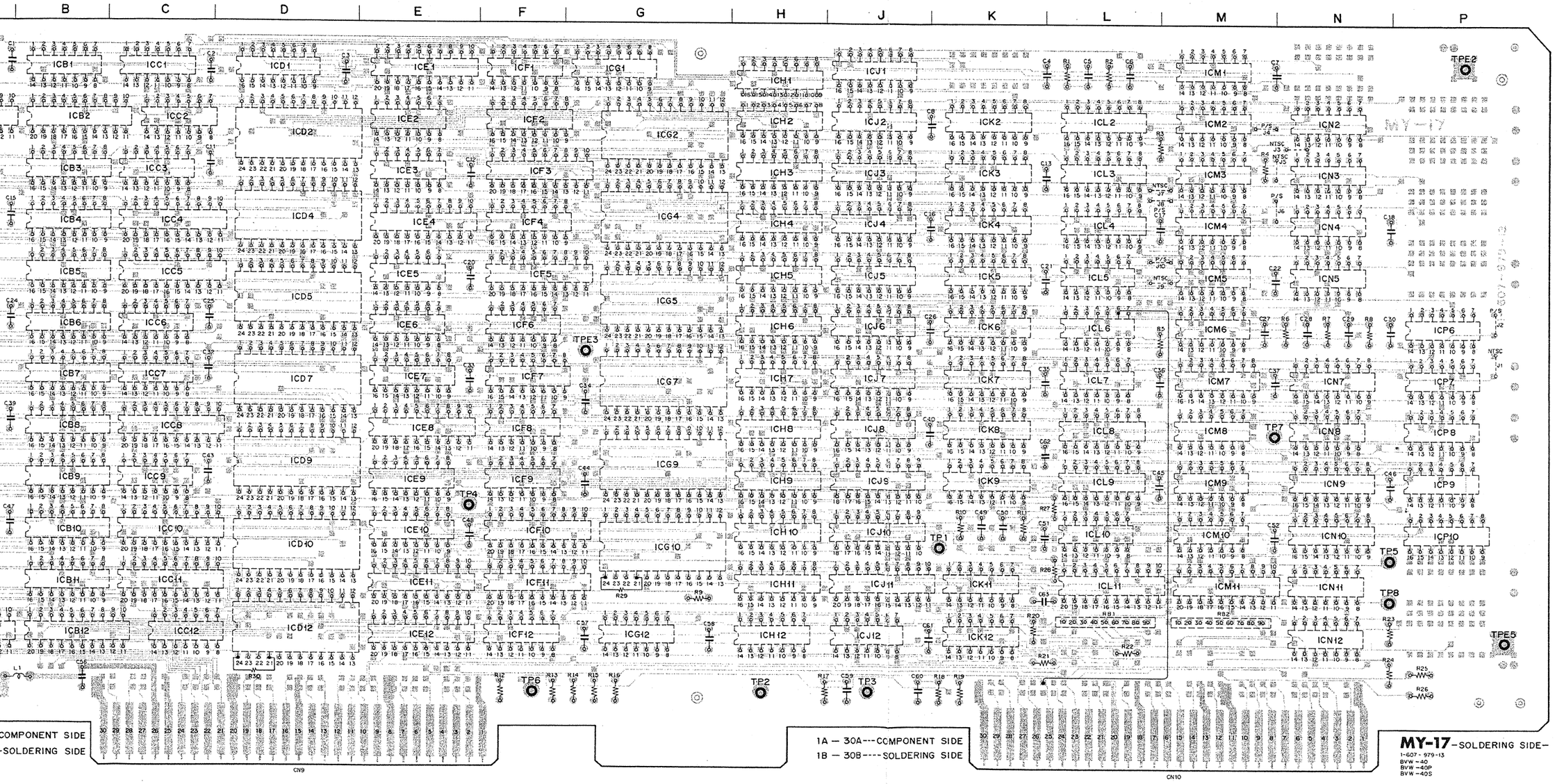
MY-17 (VIDEO TBC)

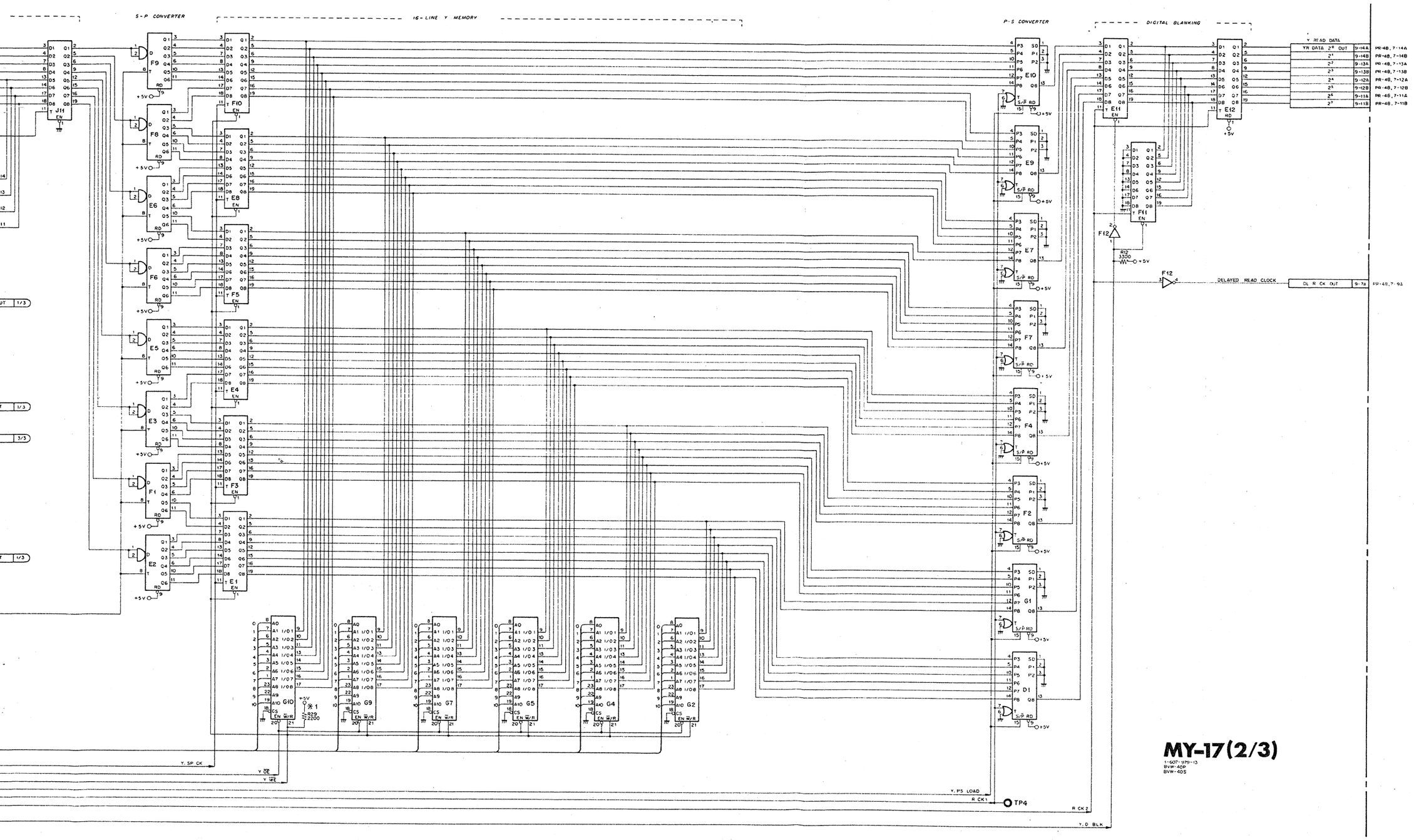
Ref. No.	Type	Pin No. GND	Pin No. +5V
IC A1	SN74LS164N	7	14
IC A2	SN74LS374N	10	20
IC A3	SN74LS166AN	8	16
IC A4	SN74LS166AN	8	16
IC A5	SN74LS166AN	8	16
IC A6	SN74LS166AN	8	16
IC A7	SN74LS166AN	8	16
IC A8	SN74LS166AN	8	16
IC A9	SN74LS166AN	8	16
IC A10	SN74LS166AN	8	16
IC A11	SN74LS166AN	8	16
IC A12	SN74LS374N	10	20
IC B1	SN74LS164N	7	14
IC B2	SN74LS374N	10	20
IC B3	SN74LS166AN	8	16
IC B4	SN74LS166AN	8	16
IC B5	SN74LS166AN	8	16
IC B6	SN74LS166AN	8	16
IC B7	SN74LS166AN	8	16
IC B8	SN74LS166AN	8	16
IC B9	SN74LS166AN	8	16
IC B10	SN74LS166AN	8	16
IC B11	SN74LS166AN	8	16
IC B12	SN74LS374N	10	20
IC C1	SN74LS164N	7	14
IC C2	SN74LS164N	7	14
IC C3	SN74LS164N	7	14
IC C4	SN74LS374N	10	20
IC C5	SN74LS374N	10	20
IC C6	SN74LS164N	7	14
IC C7	SN74LS164N	7	14
IC C8	SN74LS374N	10	20
IC C9	SN74LS164N	7	14
IC C10	SN74LS374N	10	20
IC C11	SN74LS374N	10	20
IC C12	SN74LS164N	7	14
IC D1	SN74LS166AN	8	16
IC D2	MSM5128 - 12RS	12	24
IC D4	MSM5128 - 12RS	12	24
IC D5	MSM5128 - 12RS	12	24
IC D7	MSM5128 - 12RS	12	24
IC D9	MSM5128 - 12RS	12	24
IC D10	MSM5128 - 12RS	12	24
IC D12	MSM5128 - 12RS	12	24
IC E1	SN74LS374N	10	20
IC E2	SN74LS164N	7	14
IC E3	SN74LS164N	7	14
IC E4	SN74LS374N	10	20
IC E5	SN74LS164N	7	14
IC E6	SN74LS164N	7	14
IC E7	SN74LS166AN	8	16
IC E8	SN74LS374N	10	20
IC E9	SN74LS166AN	8	16
IC E10	SN74LS166AN	8	16
IC E11	SN74LS374N	10	20
IC E12	SN74273N	10	20
IC F1	SN74LS164N	7	14
IC F2	SN74LS166AN	8	16
IC F3	SN74LS374N	10	20
IC F4	SN74LS166AN	8	16
IC F5	SN74LS374N	10	20
IC F6	SN74LS164N	7	14
IC F7	SN74LS166AN	8	16
IC F8	SN74LS164N	7	14
IC F9	SN74LS164N	7	14
IC F10	SN74LS374N	10	20
IC F11	SN74LS374N	10	20
IC F12	SN74LS04N	7	14
IC G1	SN74LS166AN	8	16
IC G2	MSM5128 - 12RS	12	24
IC G4	MSM5128 - 12RS	12	24
IC G5	MSM5128 - 12RS	12	24
IC G7	MSM5128 - 12RS	12	24
IC G9	MSM5128 - 12RS	12	24
IC G10	MSM5128 - 12RS	12	24
IC G12	SN74LS164N	7	14
IC H1	SN74LS161AN	8	16
IC H2	SN74LS157N	8	16
IC H3	SN74LS157N	8	16
IC H4	SN74LS157N	8	16
IC H5	SN74LS157N	8	16
IC H6	SN74LS161AN	8	16
IC H7	SN74LS157N	8	16
IC H8	SN74LS157N	8	16
IC H9	SN74LS163AN	8	16
IC H10	SN74LS163AN	8	16
IC H11	SN74LS163AN	8	16
IC H12	SN7404N	7	14

Ref. No.	Type	Pin No. GND	Pin No. +5V
IC J1	SN74LS161AN	8	16
IC J2	SN74LS161AN	8	16
IC J3	SN74LS175N	8	16
IC J4	SN74LS175N	8	16
IC J5	SN74LS163AN	8	16
IC J6	SN74LS161AN	8	16
IC J7	SN74LS157N	8	16
IC J8	SN74LS157N	8	16
IC J9	MBM2149L-55	9	18
IC J10	MBM2149L-55	9	18
IC J11	SN74LS374N	10	20
IC J12	SN74LS74AN	7	14
IC K2	SN74LS161AN	8	16
IC K3	SN74LS175N	8	16
IC K4	SN74LS163AN	8	16
IC K5	SN74LS85N	8	16
IC K6	SN74LS191N	8	16
IC K7	SN74LS161AN	8	16
IC K8	SN74LS161AN	8	16
IC K9	SN74LS123N	8	16
IC K11	SN74LS02N	7	14
IC K12	SN74LS04N	7	14
IC L2	SN74LS221N	8	16
IC L3	SN74LS161AN	8	16
IC L4	SN74LS151N	8	16
IC L5	SN74LS393N	7	14
IC L6	SN74LS00N	7	14
IC L7	SN74LS08N	7	14
IC L8	SN74LS191N	8	16
IC L9	SN74LS161AN	8	16
IC L10	SN74LS74AN	7	14
IC L11	SN74LS374N	10	20
IC M1	SN7408N	7	14
IC M2	SN74LS164N	7	14
IC M3	SN74LS74AN	7	14
IC M4	SN74LS30N	7	14
IC M5	SN74LS04N	7	14
IC M6	SN74LS74AN	7	14
IC M7	SN74LS221N	8	16
IC M8	SN74LS00N	7	14
IC M9	SN74LS04N	7	14
IC M10	SN7400N	7	14
IC M11	SN74LS374N	10	20
IC N2	SN74LS164N	7	14
IC N3	SN74LS74AN	7	14
IC N4	SN74LS74AN	7	14
IC N5	SN74LS04N	7	14
IC N7	SN74LS123N	8	16
IC N8	SN7404N	7	14
IC N9	SN74LS161AN	8	16
IC N10	SN74LS161AN	8	16
IC N11	SN74LS04N	7	14
IC N12	SN74LS04N	7	14
IC P6	SN74LS00N	7	14
IC P7	SN74LS164N	7	14
IC P8	SN7404N	7	14
IC P9	SN74LS00N	7	14
IC P10	SN74LS161AN	8	16



MY-17 MY-17


B
C
D
E
F
G
H
J
K
L
M
N
P
TP1 K - 10
TP2 H - 12
TP3 J - 12
TP4 E - 9
TP5 P - 11
TP6 P - 12
TP7 N - 8
TP8 P - 11
TPE1 A - 2
TPE2 P - 1
TPE3 G - 7
TPE4 A - 12
TPE5 P - 12
MY-17
CN9
CN10
1A — 30A---COMPONENT SIDE
1B — 30B----SOLDERING SIDE
COMPONENT SIDE
-SOLDERING SIDE
MY-17 -SOLDERING SIDE-
1-607-979-13
BVW-40
BVW-40P
BVW-40S



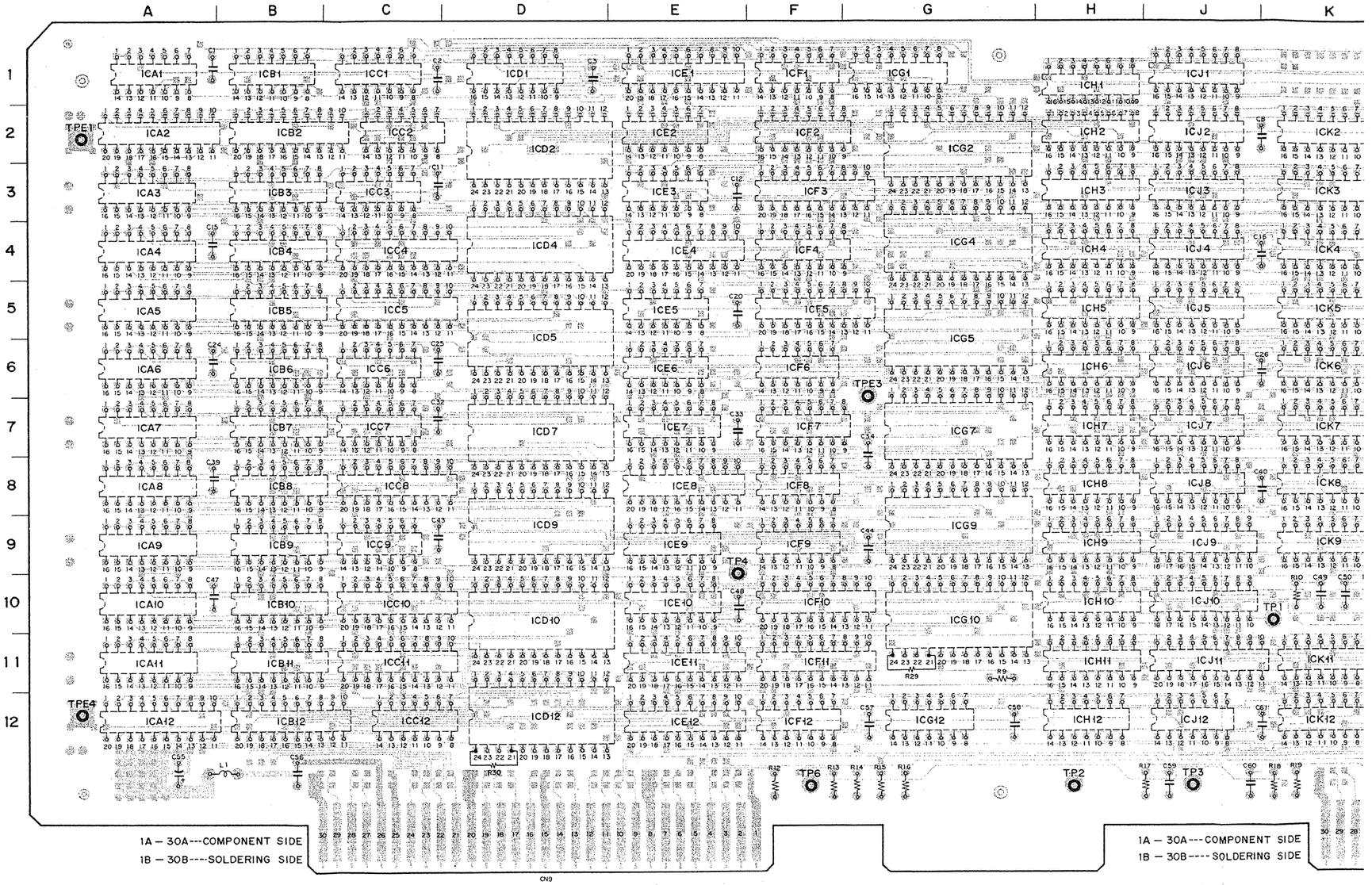
MY-17(2/3)

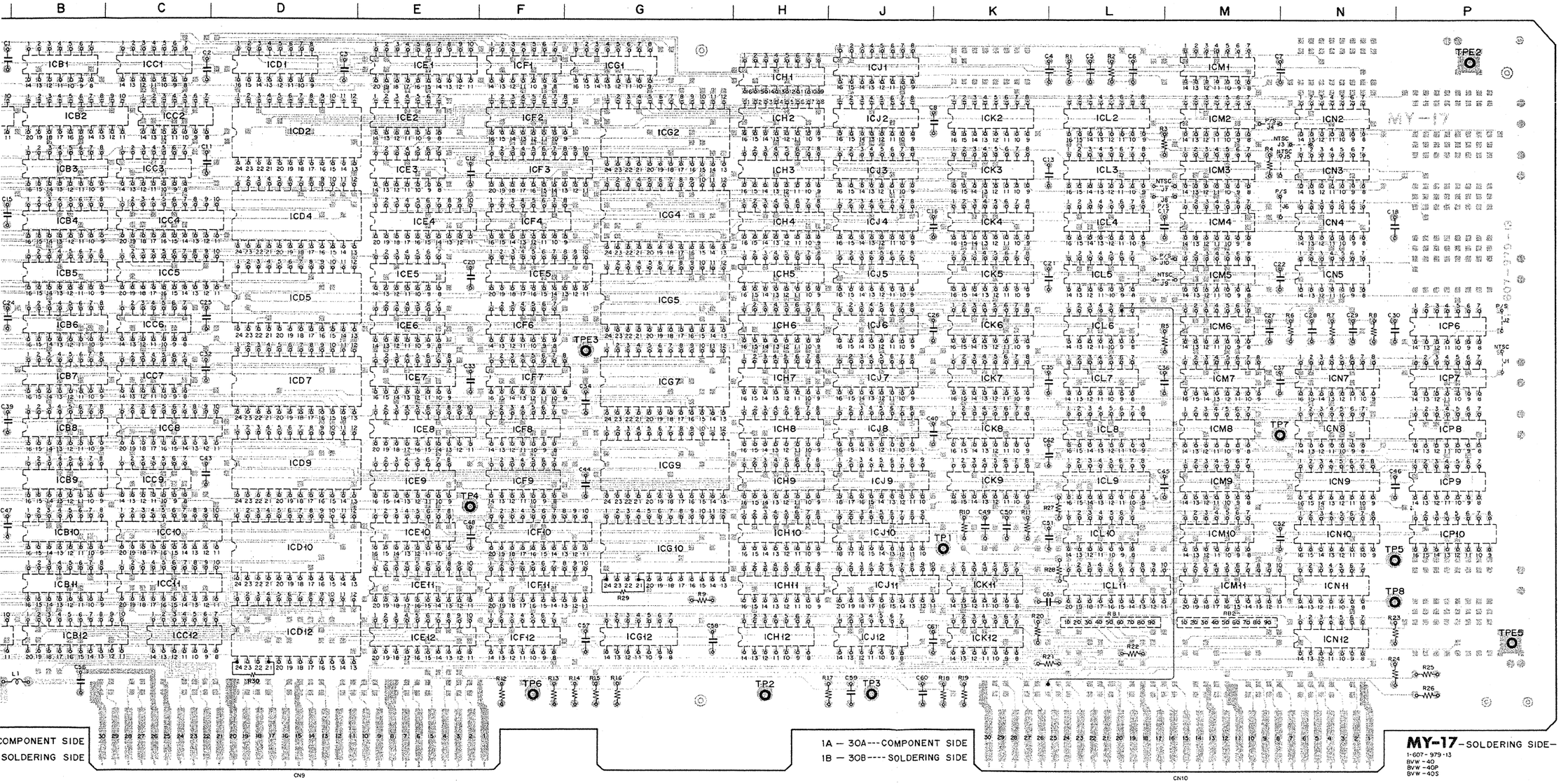
1-607-979-13
BVW-40P
BVW-40S

MY-17 (VIDEO TBC)

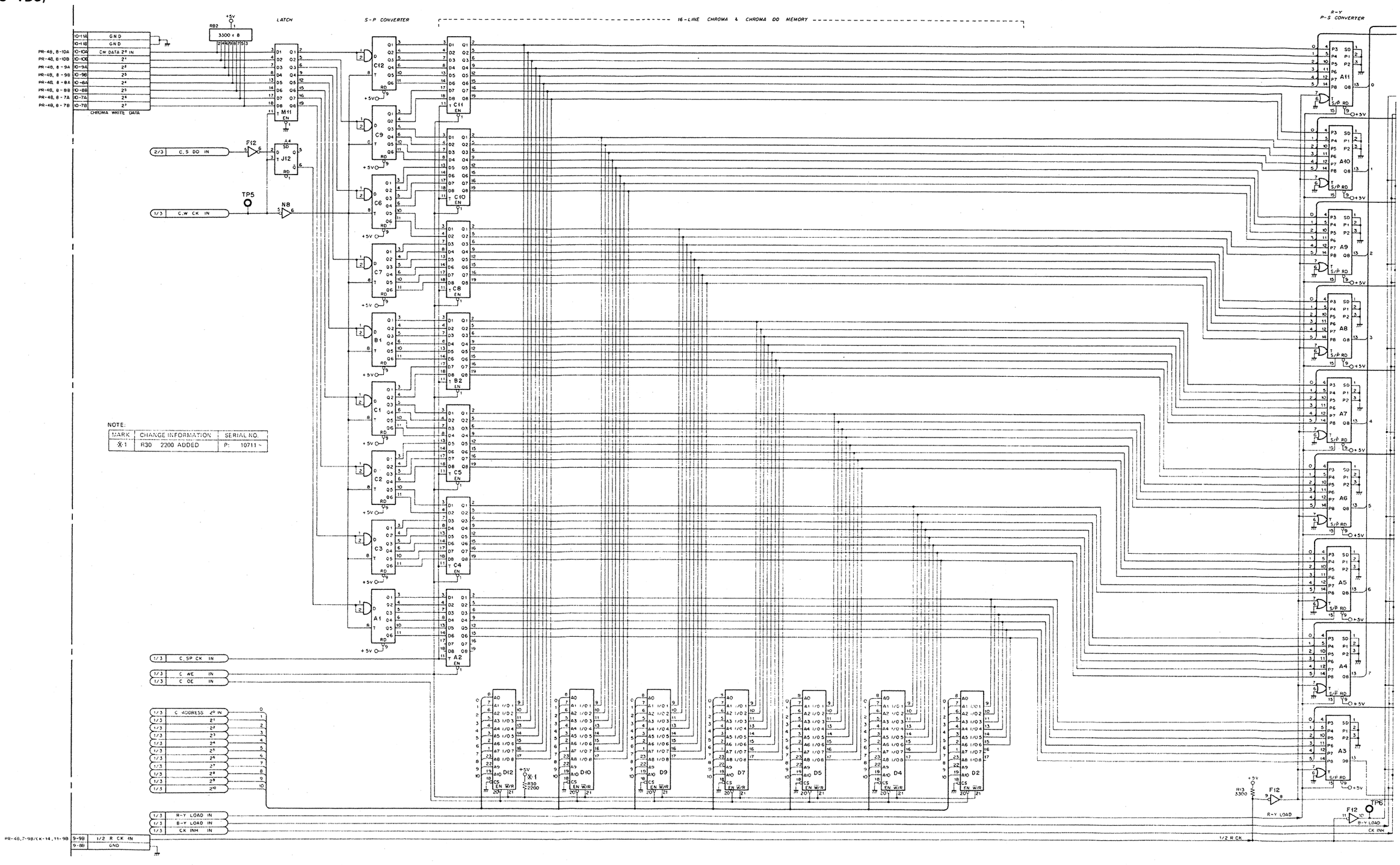
Ref. No.	Type	Pin No. GND	Pin No. +5V
IC A1	SN74LS164N	7	14
IC A2	SN74LS374N	10	20
IC A3	SN74LS166AN	8	16
IC A4	SN74LS166AN	8	16
IC A5	SN74LS166AN	8	16
IC A6	SN74LS166AN	8	16
IC A7	SN74LS166AN	8	16
IC A8	SN74LS166AN	8	16
IC A9	SN74LS166AN	8	16
IC A10	SN74LS166AN	8	16
IC A11	SN74LS166AN	8	16
IC A12	SN74LS374N	10	20
IC B1	SN74LS164N	7	14
IC B2	SN74LS374N	10	20
IC B3	SN74LS166AN	8	16
IC B4	SN74LS166AN	8	16
IC B5	SN74LS166AN	8	16
IC B6	SN74LS166AN	8	16
IC B7	SN74LS166AN	8	16
IC B8	SN74LS166AN	8	16
IC B9	SN74LS166AN	8	16
IC B10	SN74LS166AN	8	16
IC B11	SN74LS166AN	8	16
IC B12	SN74LS374N	10	20
IC C1	SN74LS164N	7	14
IC C2	SN74LS164N	7	14
IC C3	SN74LS164N	7	14
IC C4	SN74LS374N	10	20
IC C5	SN74LS374N	10	20
IC C6	SN74LS164N	7	14
IC C7	SN74LS164N	7	14
IC C8	SN74LS374N	10	20
IC C9	SN74LS164N	7	14
IC C10	SN74LS374N	10	20
IC C11	SN74LS374N	10	20
IC C12	SN74LS164N	7	14
IC D1	SN74LS166AN	8	16
IC D2	MSM5128 - 12RS	12	24
IC D4	MSM5128 - 12RS	12	24
IC D5	MSM5128 - 12RS	12	24
IC D7	MSM5128 - 12RS	12	24
IC D9	MSM5128 - 12RS	12	24
IC D10	MSM5128 - 12RS	12	24
IC D12	MSM5128 - 12RS	12	24
IC E1	SN74LS374N	10	20
IC E2	SN74LS164N	7	14
IC E3	SN74LS164N	7	14
IC E4	SN74LS374N	10	20
IC E5	SN74LS164N	7	14
IC E6	SN74LS164N	7	14
IC E7	SN74LS166AN	8	16
IC E8	SN74LS374N	10	20
IC E9	SN74LS166AN	8	16
IC E10	SN74LS166AN	8	16
IC E11	SN74LS374N	10	20
IC E12	SN74273N	10	20
IC F1	SN74LS164N	7	14
IC F2	SN74LS166AN	8	16
IC F3	SN74LS374N	10	20
IC F4	SN74LS166AN	8	16
IC F5	SN74LS374N	10	20
IC F6	SN74LS164N	7	14
IC F7	SN74LS166AN	8	16
IC F8	SN74LS164N	7	14
IC F9	SN74LS164N	7	14
IC F10	SN74LS374N	10	20
IC F11	SN74LS374N	10	20
IC F12	SN74LS04N	7	14
IC G1	SN74LS166AN	8	16
IC G2	MSM5128 - 12RS	12	24
IC G4	MSM5128 - 12RS	12	24
IC G5	MSM5128 - 12RS	12	24
IC G7	MSM5128 - 12RS	12	24
IC G9	MSM5128 - 12RS	12	24
IC G10	MSM5128 - 12RS	12	24
IC G12	SN74LS164N	7	14
IC H1	SN74LS161AN	8	16
IC H2	SN74LS157N	8	16
IC H3	SN74LS157N	8	16
IC H4	SN74LS157N	8	16
IC H5	SN74LS157N	8	16
IC H6	SN74LS161AN	8	16
IC H7	SN74LS157N	8	16
IC H8	SN74LS157N	8	16
IC H9	SN74LS163AN	8	16
IC H10	SN74LS163AN	8	16
IC H11	SN74LS163AN	8	16
IC H12	SN7404N	7	14

Ref. No.	Type	Pin No. GND	Pin No. +5V
IC J1	SN74LS161AN	8	16
IC J2	SN74LS161AN	8	16
IC J3	SN74LS175N	8	16
IC J4	SN74LS175N	8	16
IC J5	SN74LS163AN	8	16
IC J6	SN74LS161AN	8	16
IC J7	SN74LS157N	8	16
IC J8	SN74LS157N	8	16
IC J9	MBM2149L-55	9	18
IC J10	MBM2149L-55	9	18
IC J11	SN74LS374N	10	20
IC J12	SN74LS74AN	7	14
IC K2	SN74LS161AN	8	16
IC K3	SN74LS175N	8	16
IC K4	SN74LS163AN	8	16
IC K5	SN74LS85N	8	16
IC K6	SN74LS191N	8	16
IC K7	SN74LS161AN	8	16
IC K8	SN74LS161AN	8	16
IC K9	SN74LS123N	8	16
IC K11	SN74LS02N	7	14
IC K12	SN74LS04N	7	14
IC L2	SN74LS221N	8	16
IC L3	SN74LS161AN	8	16
IC L4	SN74LS151N	8	16
IC L5	SN74LS393N	7	14
IC L6	SN74LS00N	7	14
IC L7	SN74LS08N	7	14
IC L8	SN74LS191N	8	16
IC L9	SN74LS161AN	8	16
IC L10	SN74LS74AN	7	14
IC L11	SN74LS374N	10	20
IC M1	SN7408N	7	14
IC M2	SN74LS164N	7	14
IC M3	SN74LS74AN	7	14
IC M4	SN74LS30N	7	14
IC M5	SN74LS04N	7	14
IC M6	SN74LS74AN	7	14
IC M7	SN74LS221N	8	16
IC M8	SN74LS00N	7	14
IC M9	SN74LS04N	7	14
IC M10	SN7400N	7	14
IC M11	SN74LS374N	10	20
IC N2	SN74LS164N	7	14
IC N3	SN74LS74AN	7	14
IC N4	SN74LS74AN	7	14
IC N5	SN74LS04N	7	14
IC N7	SN74LS123N	8	16
IC N8	SN7404N	7	14
IC N9	SN74LS161AN	8	16
IC N10	SN74LS161AN	8	16
IC N11	SN74LS04N	7	14
IC N12	SN74LS04N	7	14
IC P6	SN74LS00N	7	14
IC P7	SN74LS164N	7	14
IC P8	SN7404N	7	14
IC P9	SN74LS00N	7	14
IC P10	SN74LS161AN	8	16




B
C
D
E
F
G
H
J
K
L
M
N
P
TP1 K - 10
TP2 H - 12
TP3 J - 12
TP4 E - 9
TP5 P - 11
TP6 F - 12
TP7 N - 8
TP8 P - 11
TPE1 A - 2
TPE2 P - 1
TPE3 G - 7
TPE4 A - 12
TPE5 P - 12
MY-17
1A — 30A---COMPONENT SIDE
1B — 30B----SOLDERING SIDE
CN9
CN10
MY-17 -SOLDERING SIDE-
1-607-979-13
BVW-40
BVW-40P
BVW-40S

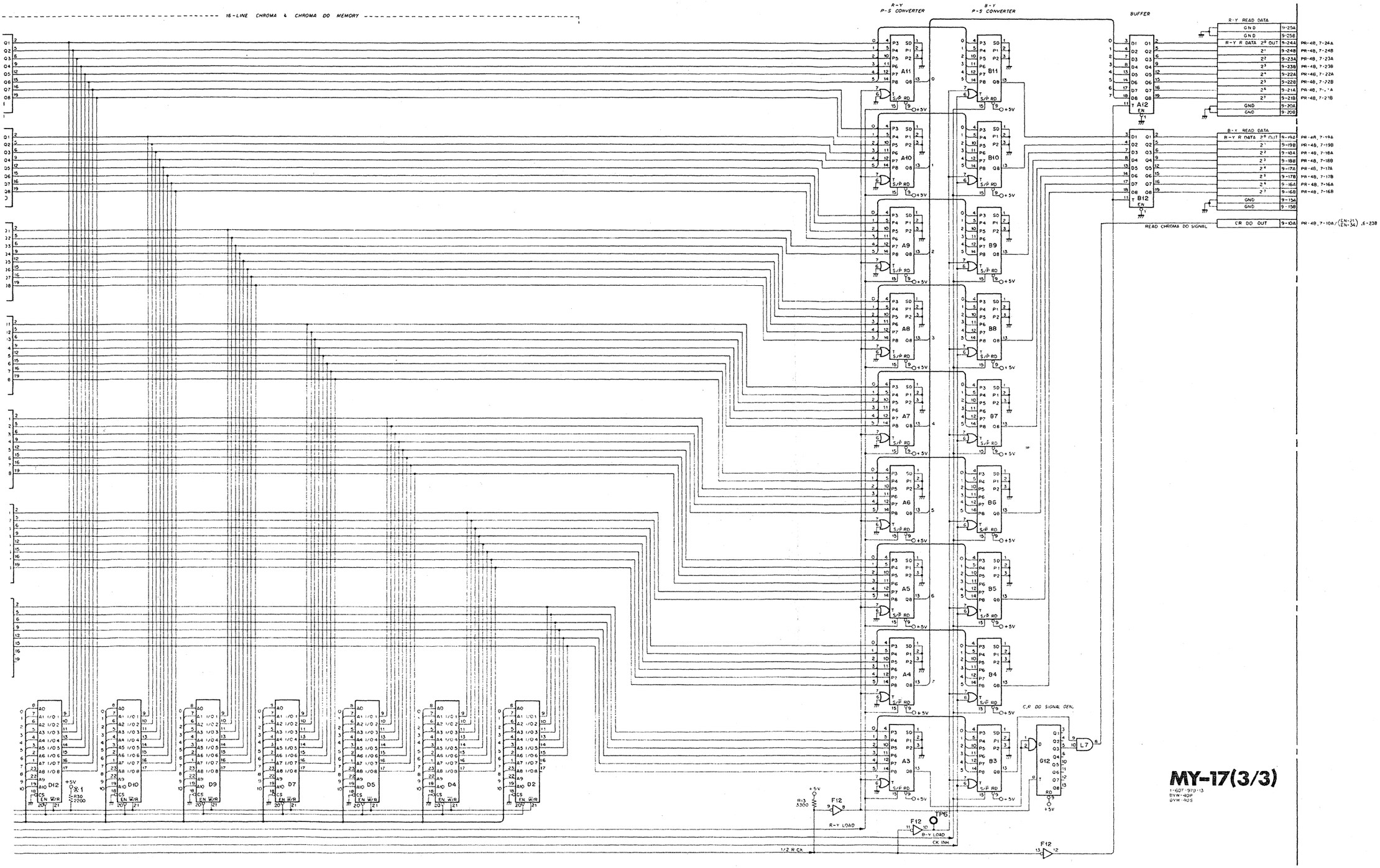
MY-17 (3/3) (VIDEO TBC)



NOTE:

MARK	CHANGE INFORMATION	SERIAL NO.
X-1	R30 2200 ADDED	P: 10711~

MY-17 (3/3)

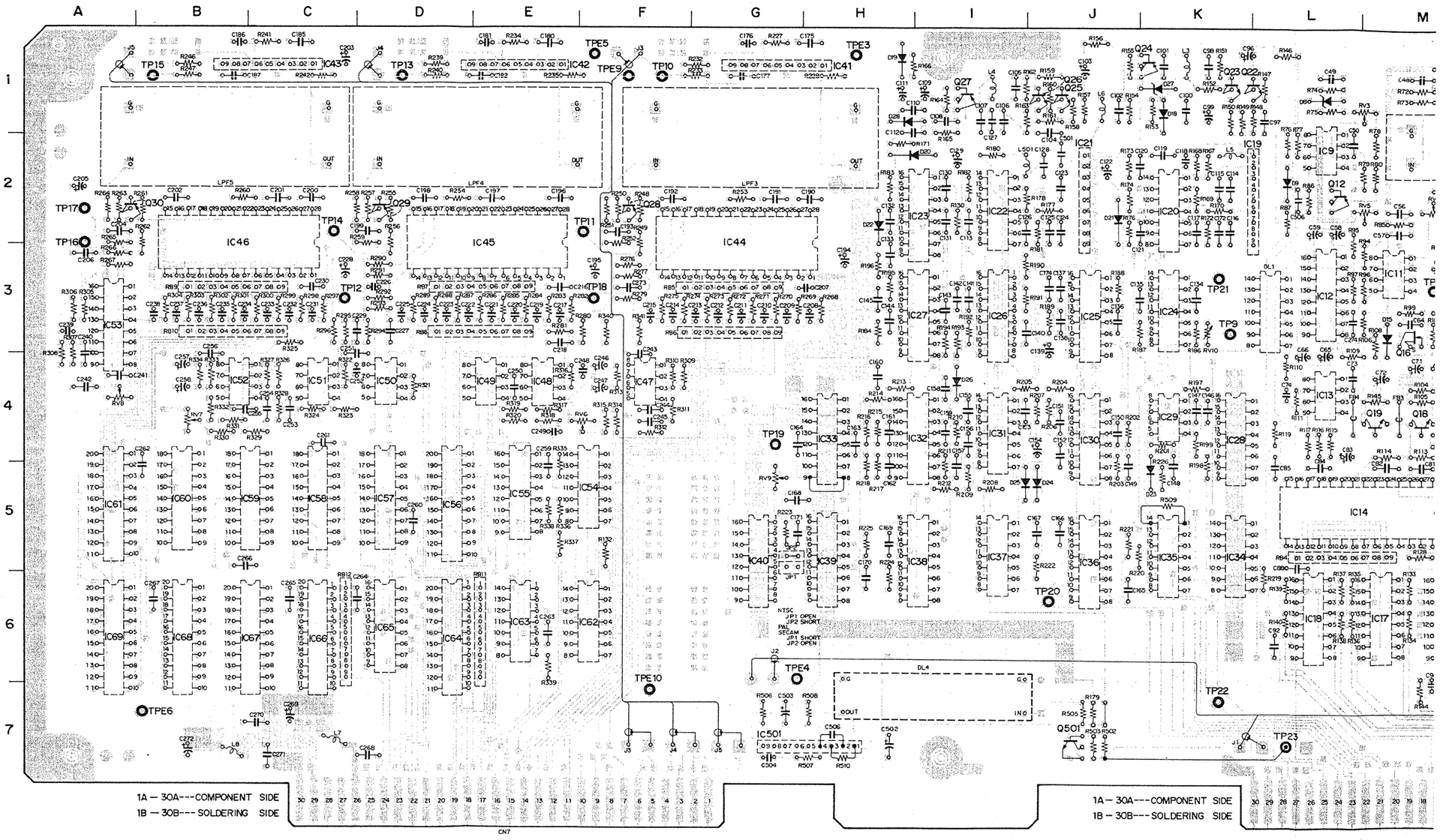


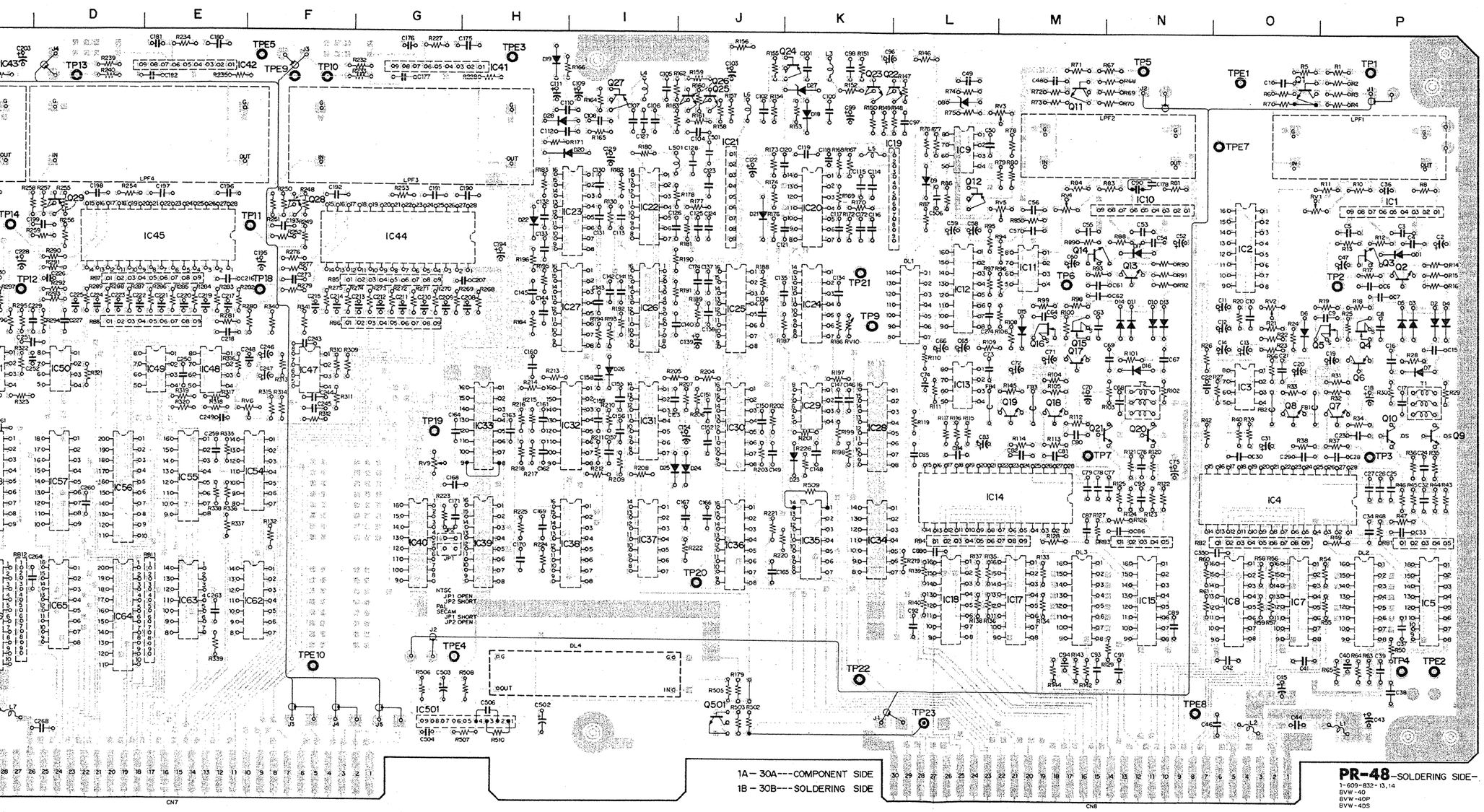
MY-17(3/3)

1-607-979-13
BVW-40P
BVW-40S

PR-48 (VIDEO TBC)

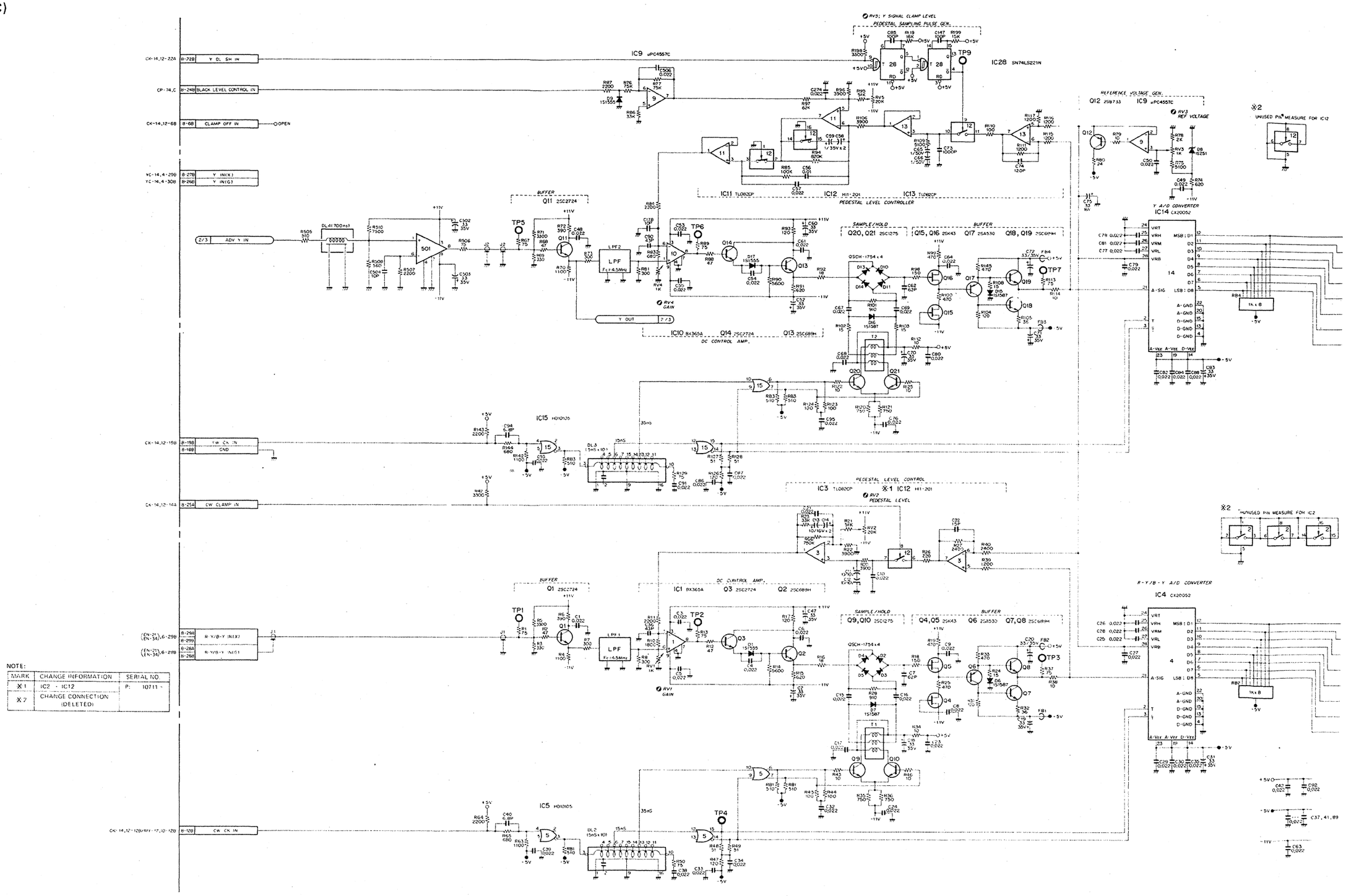
Ref. No.	Type	Pin No.					
		−11V	−5V	GND	+5V	+11V	+12V
IC 1	BX365A	9		4, 7		3	
IC 2	HI1 - 201 - 5	4		5		13	
IC 3	TL082CP	4				8	
IC 4	CX20052		14, 19, 23	4, 13, 15, 20, 22			
IC 5	HD10105		8		1, 16		
IC 7	HD10125		8	16	9		
IC 8	HD10125		8	16	9		
IC 9	μPC4557C	4				8	
IC 10	BX365A	9		4, 7		3	
IC 11	TL082CP	4				8	
IC 12	HI1 - 201 - 5	4		5		13	
IC 13	TL082CP	4				8	
IC 14	CX20052		4, 19, 23	4, 13, 15, 20, 22			
IC 15	HD10105		8		1, 16		
IC 17	HD10125		8	16	9		
IC 18	HD10125		8	16	9		
IC 19	BX365A	9		4, 7		3	
IC 20	μPC319C	6				11	
IC 21	BX365A	9		1, 7		3	
IC 22	μPC319C	6		3, 8		11	
IC 23	HA1 - 4905 - 5	5		9	1	13	
IC 24	TL084CN	11				4	
IC 25	HI1 - 201 - 5	4		5		13	
IC 26	SN74LS123N			8	16		
IC 27	HI1 - 201 - 5	4		5		13	
IC 28	SN74LS221N			8	16		
IC 29	SN75154BP			4	8		
IC 30	HA1 - 4905 - 5	5		9	1	13	
IC 31	TL084CN	11				4	
IC 32	HA1 - 4905 - 5	5		9	1	13	
IC 33	HI1 - 201 - 5	4		5		13	
IC 34	SN74LS00N			7	14		
IC 35	SN74LS74AN			7	14		
IC 36	SN74LS221N			8	16		
IC 37	SN74LS20N			7	14		
IC 38	TC4528BP			8	16		
IC 39	SN74LS221N			8	16		
IC 40	TC4022BP			8	16		
IC 41	BX365A	9		4, 7		3	
IC 42	BX365A	9		4, 7		3	
IC 43	BX365A	8		4, 7		3	
IC 44	CX20051A			1, 3, 15, 21, 27	14, 21, 22, 28		
IC 45	CX20051A			1, 3, 15, 21, 27	14, 21, 22, 28		
IC 46	CX20051A			1, 3, 15, 21, 27	14, 21, 22, 28		
IC 47	μPC1557C	4				8	
IC 48	TL082CP	4				8	
IC 49	TL607CP	5		1		8	
IC 50	TL607CP	5		1		8	
IC 51	TL082CP	4				8	
IC 52	μPC1557C	4				8	
IC 53	MC10198L			8	1, 16		
IC 54	SN74S32N			7	14		
IC 55	SN74LS163AN			8	16		
IC 56	SN74273N			10	20		
IC 57	MBM2149L - 55			9	18		
IC 58	MBM2149L - 55			9	18		
IC 59	MBM2149L - 55			9	18		
IC 60	MBM2149L - 55			9	18		
IC 61	SN74273N			10	20		
IC 62	SN74LS04N			7	14		
IC 63	SN74LS113AN			7	14		
IC 61	SN74LS374N			10	20		
IC 65	SN74LS163AN			8	16		
IC 66	SN74LS273N			10	20		
IC 67	SN74LS273N			10	20		
IC 68	SN74LS273N			10	20		
IC 69	SN74LS374N			10	20		
IC501	BX365A	9		4, 7		3	





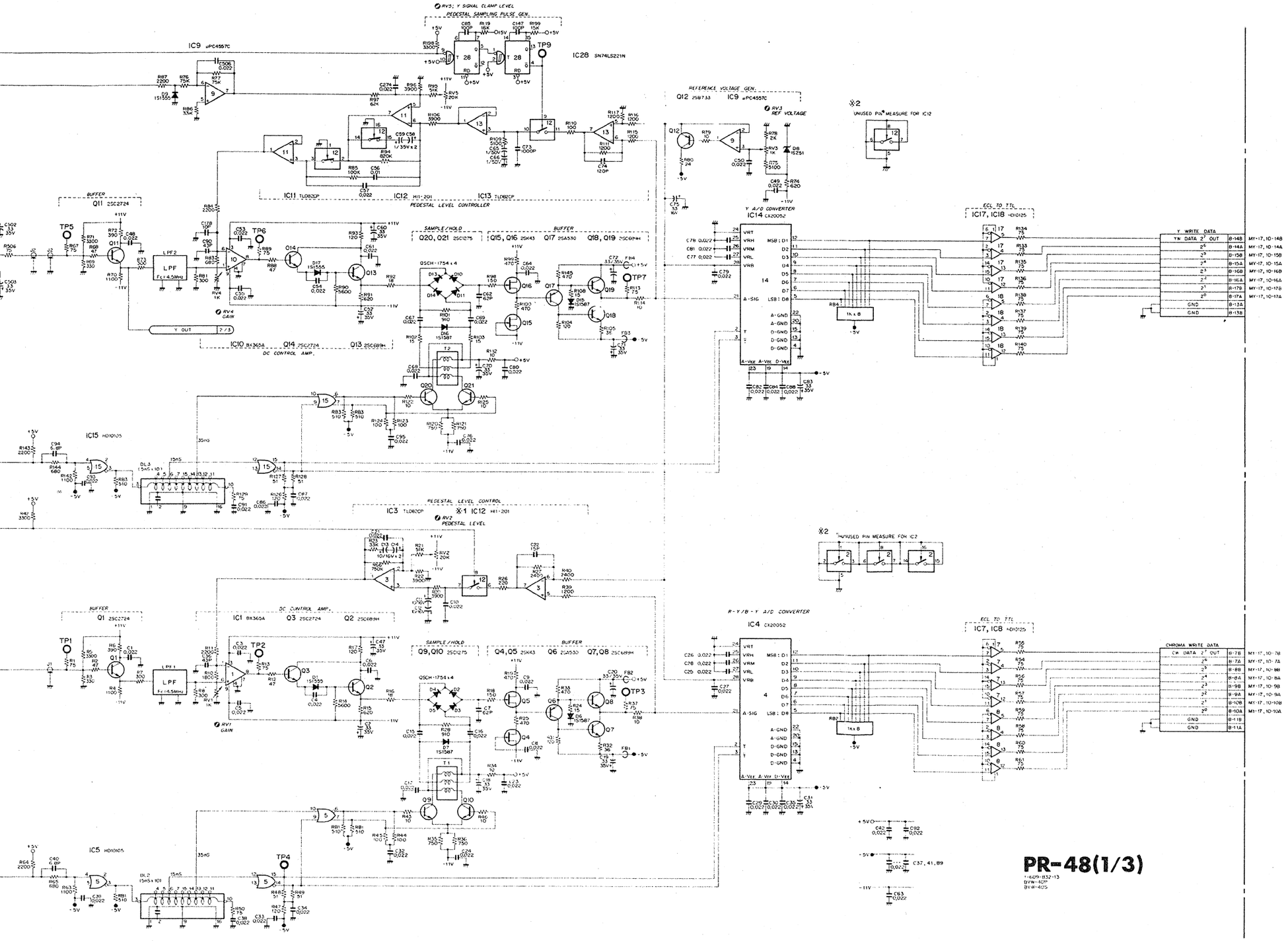
D1	P - 3	IC41	G - 1	RV1	O - 2
D2	P - 3	IC42	E - 1	RV2	O - 3
D3	P - 3	IC43	C - 1	RV3	M - 1
D4	P - 3	IC44	G - 2	RV4	M - 2
D5	P - 3	IC45	E - 2	RV5	M - 2
D6	O - 3	IC46	B - 2	RV6	F - 4
D7	P - 4	IC47	F - 4	RV7	B - 4
D8	L - 1	IC48	E - 4	RV8	A - 4
D9	L - 2	IC49	E - 4	RV9	G - 5
D10	N - 3	IC50	D - 4	RV10	K - 3
D11	N - 3	IC51	C - 4		
D13	N - 3	IC52	B - 4	T1	P - 4
D14	N - 3	IC53	A - 3	T2	N - 4
D15	M - 3	IC54	F - 5		
D16	N - 4	IC55	E - 5	TP1	P - 1
D17	N - 3	IC56	D - 5	TP2	P - 3
D18	K - 1	IC57	D - 5	TP3	P - 5
D19	H - 1	IC58	C - 5	TP4	P - 7
D20	I - 2	IC59	C - 5	TP5	N - 1
D21	J - 2	IC60	B - 5	TP6	M - 3
D22	H - 2	IC61	A - 5	TP7	M - 5
D23	K - 5	IC62	F - 6	TP9	K - 3
D24	J - 5	IC63	E - 6	TP10	F - 1
D25	J - 5	IC64	D - 6	TP11	F - 2
D26	I - 4	IC65	D - 6	TP12	C - 3
D27	K - 1	IC66	C - 6	TP13	D - 1
D28	H - 1	IC67	C - 6	TP14	C - 2
		IC68	B - 6	TP15	B - 1
DL1	L - 3	IC69	A - 6	TP16	A - 2
DL2	P - 6	IC501	G - 7	TP17	A - 2
DL3	M - 6			TP18	F - 3
DL4	H - 6	LPF1	P - 1	TP19	G - 4
		LPF2	N - 2	TP20	J - 6
IC1	P - 2	LPF3	G - 2	TP21	K - 3
IC2	O - 3	LPF4	E - 2	TP22	K - 7
IC3	O - 4	LPF5	B - 2	TP23	L - 7
IC4	O - 5				
IC5	P - 6	Q1	O - 1	TPE1	O - 1
IC7	O - 6	Q2	P - 3	TPE2	P - 7
IC8	O - 6	Q3	P - 3	TPE3	H - 1
IC9	L - 2	Q4	P - 3	TPE4	G - 6
IC10	N - 2	Q5	P - 3	TPE5	F - 1
IC11	M - 3	Q6	P - 4	TPE6	B - 7
IC12	L - 3	Q7	P - 4	TPE7	O - 2
IC13	L - 4	Q8	O - 4	TPE8	N - 7
IC14	M - 5	Q9	P - 4	TPE9	F - 1
IC15	N - 6	Q10	P - 4	TPE10	F - 7
IC17	M - 6	Q11	M - 1		
IC18	L - 6	Q12	L - 2		
IC19	L - 2	Q13	N - 3		
IC20	K - 2	Q14	M - 3		
IC21	J - 2	Q15	M - 3		
IC22	I - 2	Q16	M - 3		
IC23	I - 2	Q17	M - 4		
IC24	K - 3	Q18	M - 4		
IC25	J - 3	Q19	M - 4		
IC26	I - 3	Q20	N - 4		
IC27	I - 3	Q21	N - 4		
IC28	K - 4	Q22	K - 1		
IC29	K - 4	Q23	K - 1		
IC30	J - 4	Q24	K - 1		
IC31	I - 4	Q25	J - 1		
IC32	I - 4	Q26	J - 1		
IC33	H - 4	Q27	I - 1		
IC34	K - 5	Q28	F - 2		
IC35	K - 5	Q29	D - 2		
IC36	J - 5	Q30	A - 2		
IC37	I - 5	Q501	J - 7		
IC38	I - 5				
IC39	H - 5				
IC40	G - 5				

PR-48 (1/3) (VIDEO TBC)



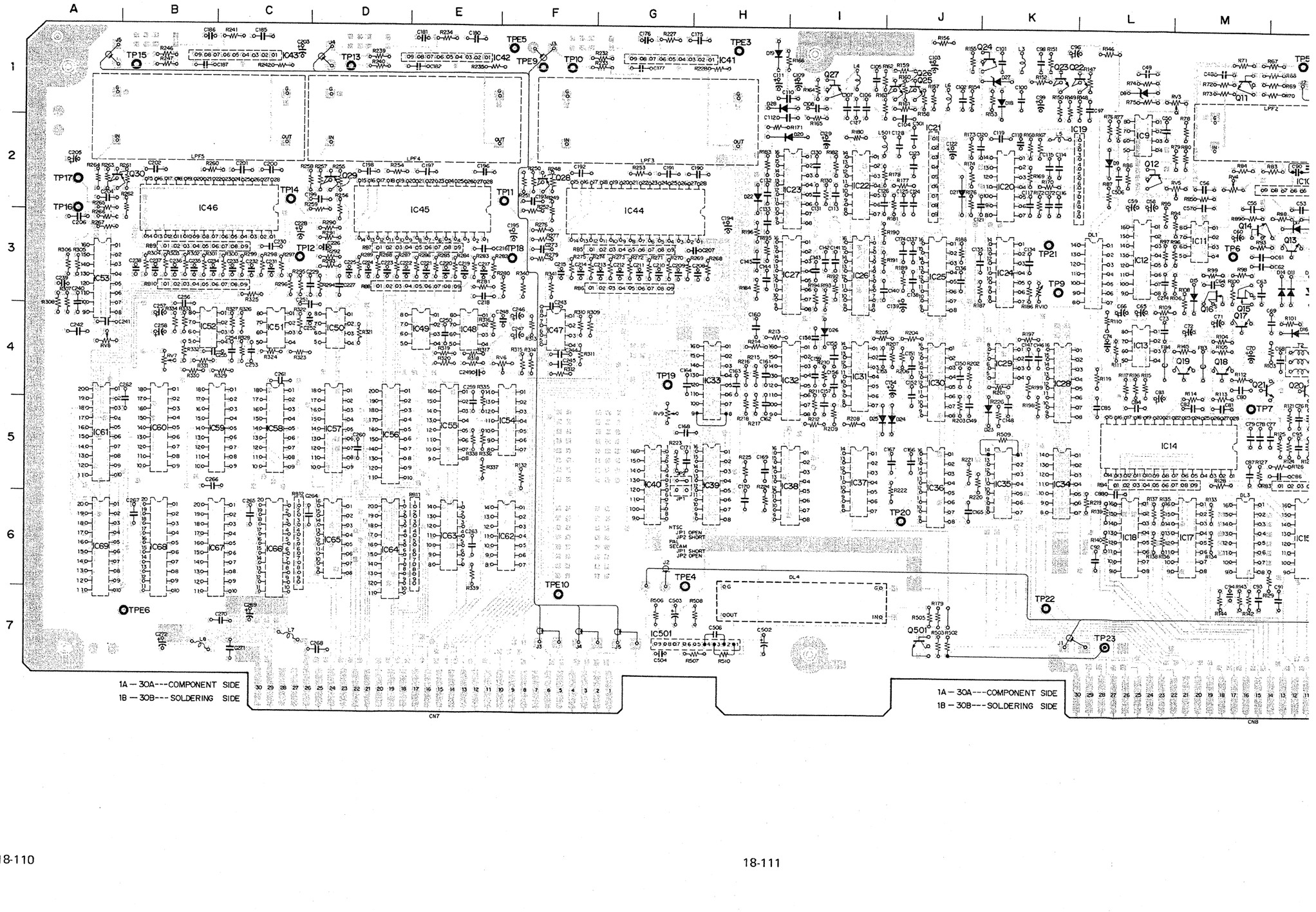
NOTE:

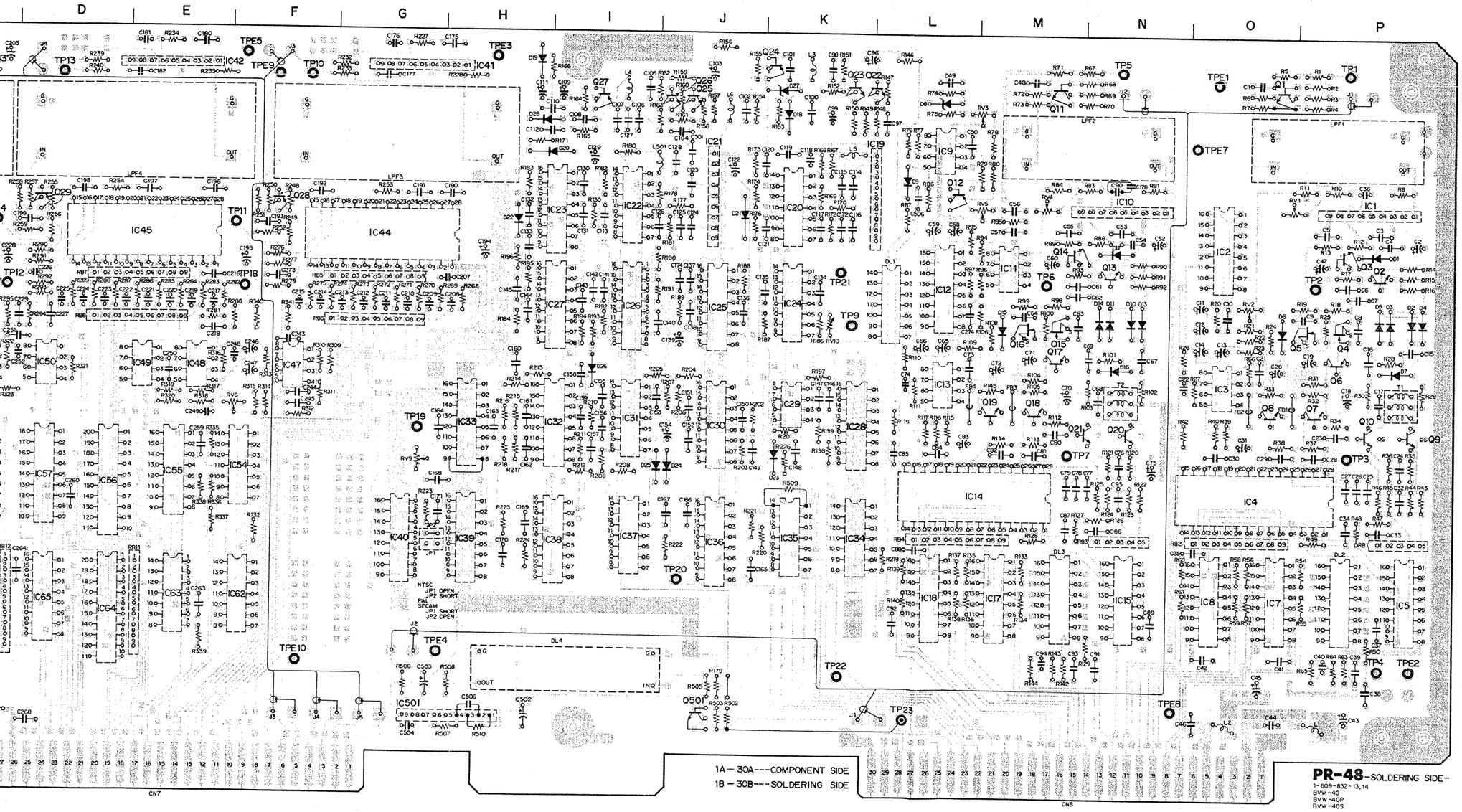
MARK	CHANGE INFORMATION	SERIAL NO.
※1	IC2 - IC12	P: 10711 -
※2	CHANGE CONNECTION (DELETED)	


RV5: Y SIGNAL CLAMP LEVEL
PEDESTAL SAMPLING PULSE GEN.
IC9 μPC4557C
IC28 SN74LS221N
TP9
REFERENCE VOLTAGE GEN.
Q12 2SB733
IC9 μPC4557C
RV3 REF VOLTAGE
※2
UNUSED PIN MEASURE FOR IC12
IC11 TL082CP
IC12 H11-201
IC13 TL082CP
PEDESTAL LEVEL CONTROLLER
BUFFER
Q11 2SC2724
TP5
TP6
LPF
Fc=4.5MHz
RV4 CAIN
Y OUT
IC10 BX365A
Q14 2SC2724
Q13 2SC689H
DC CONTROL AMP.
SAMPLE/HOLD
Q20, Q21 2SC1675
BUFFER
Q15, Q16 2SK43
Q17 2SA530
Q18, Q19 2SC689H
QSCH-1754×4
Y A/D CONVERTER
IC14 CX20052
ECL TO TTL
IC17, IC18 HD10125
Y WRITE DATA
IC15 HD10105
PEDESTAL LEVEL CONTROL
IC3 TL082CP
※1 IC12 H11-201
RV2 PEDESTAL LEVEL
※2
UNUSED PIN MEASURE FOR IC2
BUFFER
Q1 2SC2724
TP1
TP2
LPF
Fc=4.5MHz
RV1 GAIN
IC1 BX365A
Q3 2SC2724
Q2 2SC689H
DC CONTROL AMP.
SAMPLE/HOLD
Q9,Q10 2SC1675
BUFFER
Q4,Q5 2SK43
Q6 2SA530
Q7,Q8 2SC689H
QSCH-1754×4
R-Y/B-Y A/D CONVERTER
IC4 CX20052
ECL TO TTL
IC7, IC8 HD10125
CHROMA WRITE DATA
IC5 HD10105
TP4
PR-48(1/3)
1-6209-832-13
BVW-40*
BVW-40S

PR-48 (VIDEO TBC)

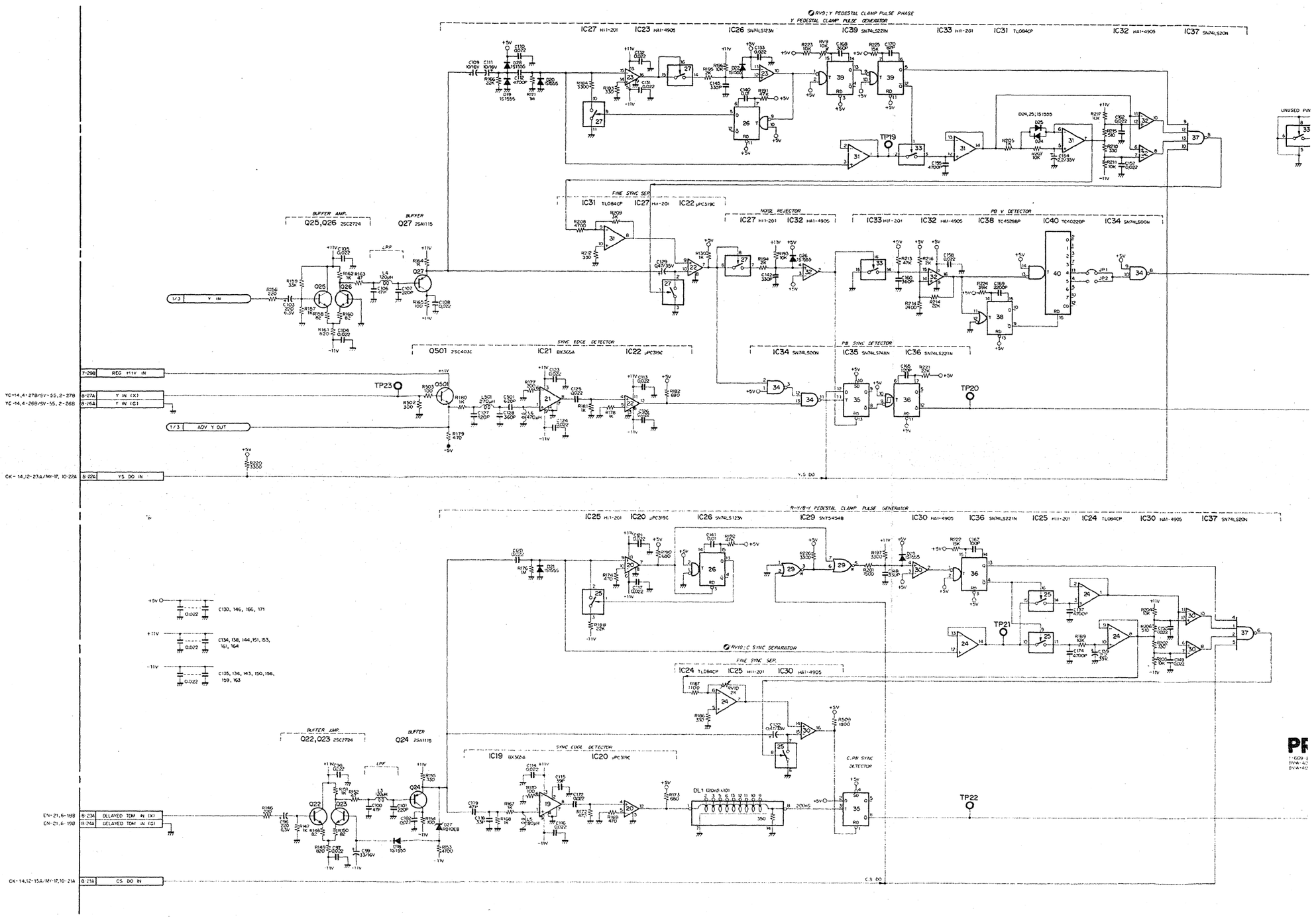
Ref. No.	Type	Pin No.					
		−11V	−5V	GND	+5V	+11V	+12V
IC 1	BX365A	9		4, 7		3	
IC 2	HI1 - 201 - 5	4		5		13	
IC 3	TL082CP	4				8	
IC 4	CX20052		14, 19, 23	4, 13, 15, 20, 22			
IC 5	HD10105		8		1, 16		
IC 7	HD10125		8	16	9		
IC 8	HD10125		8	16	9		
IC 9	μPC4557C	4				8	
IC 10	BX365A	9		4, 7		3	
IC 11	TL082CP	4				8	
IC 12	HI1 - 201 - 5	4		5		13	
IC 13	TL082CP	4				8	
IC 14	CX20052		4, 19, 23	4, 13, 15, 20, 22			
IC 15	HD10105		8		1, 16		
IC 17	HD10125		8	16	9		
IC 18	HD10125		8	16	9		
IC 19	BX365A	9		4, 7		3	
IC 20	μPC319C	6				11	
IC 21	BX365A	9		1, 7		3	
IC 22	μPC319C	6		3, 8		11	
IC 23	HA1 - 4905 - 5	5		9	1	13	
IC 24	TL081CN	11				4	
IC 25	HI1 - 201 - 5	4		5		13	
IC 26	SN74LS123N			8	16		
IC 27	HI1 - 201 - 5	4		5		13	
IC 28	SN74LS221N			8	16		
IC 29	SN75454BP			4	8		
IC 30	HA1 - 4905 - 5	5		9	1	13	
IC 31	TL084CN	11				4	
IC 32	HA1 - 4905 - 5	5		9	1	13	
IC 33	HI1 - 201 - 5	4		5		13	
IC 34	SN74LS00N			7	14		
IC 35	SN74LS74AN			7	14		
IC 36	SN74LS221N			8	16		
IC 37	SN74LS20N			7	14		
IC 38	TC4528BP			8	16		
IC 39	SN74LS221N			8	16		
IC 40	TC4022BP			8	16		
IC 41	BX365A	9		4, 7		3	
IC 42	BX365A	9		4, 7		3	
IC 43	BX365A	8		4, 7		3	
IC 44	CX20051A			1, 3, 15, 21, 27	14, 21, 22, 28		
IC 45	CX20051A			1, 3, 15, 21, 27	14, 21, 22, 28		
IC 46	CX20051A			1, 3, 15, 21, 27	14, 21, 22, 28		
IC 47	μPC4557C	4				8	
IC 48	TL082CP	4				8	
IC 49	TL607CP	5		1		8	
IC 50	TL607CP	5		1		8	
IC 51	TL082CP	4				8	
IC 52	μPC1557C	1				8	
IC 53	MC10198L			8	1, 16		
IC 54	SN74S32N			7	14		
IC 55	SN74LS163AN			8	16		
IC 56	SN74273N			10	20		
IC 57	MBM2149L - 55			9	18		
IC 58	MBM2149L - 55			9	18		
IC 59	MBM2149L - 55			9	18		
IC 60	MBM2149L - 55			9	18		
IC 61	SN74273N			10	20		
IC 62	SN74LS04N			7	14		
IC 63	SN74LS113AN			7	14		
IC 64	SN74LS374N			10	20		
IC 65	SN74LS163AN			8	16		
IC 66	SN74LS273N			10	20		
IC 67	SN74LS273N			10	20		
IC 68	SN74LS273N			10	20		
IC 69	SN74LS374N			10	20		
IC501	BX365A	9		4, 7		3	



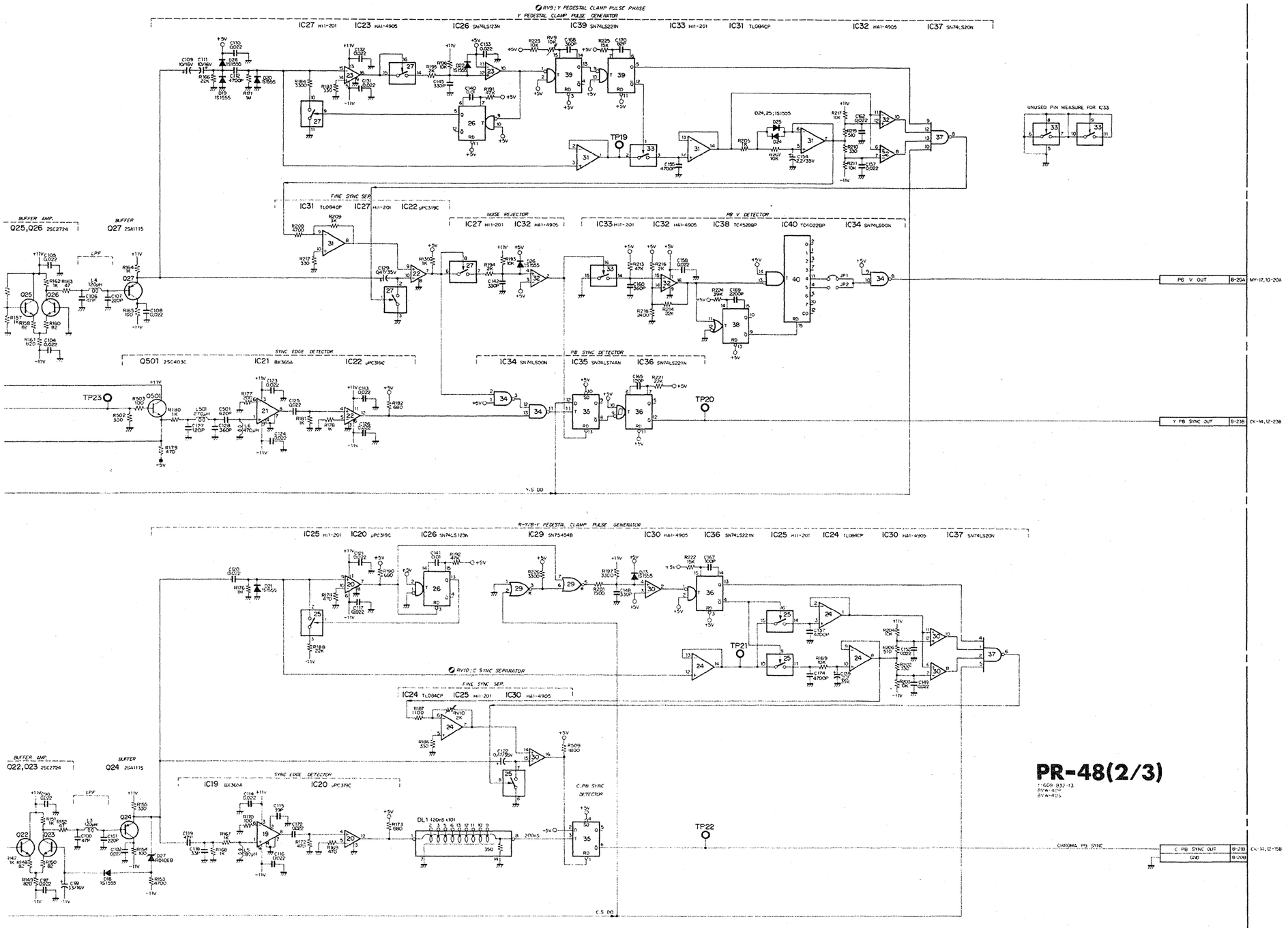


D1	P - 3	IC41	G - 1	RV1	O - 2
D2	P - 3	IC42	E - 1	RV2	O - 3
D3	P - 3	IC43	C - 1	RV3	M - 1
D4	P - 3	IC44	G - 2	RV4	M - 2
D5	P - 3	IC45	E - 2	RV5	M - 2
D6	O - 3	IC46	B - 2	RV6	F - 4
D7	P - 4	IC47	F - 4	RV7	B - 4
D8	L - 1	IC48	E - 4	RV8	A - 4
D9	L - 2	IC49	E - 4	RV9	G - 5
D10	N - 3	IC50	D - 4	RV10	K - 3
D11	N - 3	IC51	C - 4		
D13	N - 3	IC52	B - 4	T1	P - 4
D14	N - 3	IC53	A - 3	T2	N - 4
D15	M - 3	IC54	F - 5		
D16	N - 4	IC55	E - 5	TP1	P - 1
D17	N - 3	IC56	D - 5	TP2	P - 3
D18	K - 1	IC57	D - 5	TP3	P - 5
D19	H - 1	IC58	C - 5	TP4	P - 7
D20	I - 2	IC59	C - 5	TP5	N - 1
D21	J - 2	IC60	B - 5	TP6	M - 3
D22	H - 2	IC61	A - 5	TP7	M - 5
D23	K - 5	IC62	F - 6	TP9	K - 3
D24	J - 5	IC63	E - 6	TP10	F - 1
D25	J - 5	IC64	D - 6	TP11	F - 2
D26	I - 4	IC65	D - 6	TP12	C - 3
D27	K - 1	IC66	C - 6	TP13	D - 1
D28	H - 1	IC67	C - 6	TP14	C - 2
		IC68	B - 6	TP15	B - 1
DL1	L - 3	IC69	A - 6	TP16	A - 2
DL2	P - 6	IC501	G - 7	TP17	A - 2
DL3	M - 6			TP18	F - 3
DL4	H - 6	LPF1	P - 1	TP19	G - 4
		LPF2	N - 2	TP20	J - 6
IC1	P - 2	LPF3	G - 2	TP21	K - 3
IC2	O - 3	LPF4	E - 2	TP22	K - 7
IC3	O - 4	LPF5	B - 2	TP23	L - 7
IC4	O - 5				
IC5	P - 6	Q1	O - 1	TPE1	O - 1
IC7	O - 6	Q2	P - 3	TPE2	P - 7
IC8	O - 6	Q3	P - 3	TPE3	H - 1
IC9	L - 2	Q4	P - 3	TPE4	G - 6
IC10	N - 2	Q5	P - 3	TPE5	F - 1
IC11	M - 3	Q6	P - 4	TPE6	B - 7
IC12	L - 3	Q7	P - 4	TPE7	O - 2
IC13	L - 4	Q8	O - 4	TPE8	N - 7
IC14	M - 5	Q9	P - 4	TPE9	P - 1
IC15	N - 6	Q10	P - 4	TPE10	F - 7
IC17	M - 6	Q11	M - 1		
IC18	L - 6	Q12	L - 2		
IC19	L - 2	Q13	N - 3		
IC20	K - 2	Q14	M - 3		
IC21	J - 2	Q15	M - 3		
IC22	I - 2	Q16	M - 3		
IC23	I - 2	Q17	M - 4		
IC24	K - 3	Q18	M - 4		
IC25	J - 3	Q19	M - 4		
IC26	I - 3	Q20	N - 4		
IC27	I - 3	Q21	N - 4		
IC28	K - 4	Q22	K - 1		
IC29	K - 4	Q23	K - 1		
IC30	J - 4	Q24	K - 1		
IC31	I - 4	Q25	J - 1		
IC32	I - 4	Q26	J - 1		
IC33	H - 4	Q27	I - 1		
IC34	K - 5	Q28	F - 2		
IC35	K - 5	Q29	D - 2		
IC36	J - 5	Q30	A - 2		
IC37	I - 5	Q501	J - 7		
IC38	I - 5				
IC39	H - 5				
IC40	G - 5				

PR-48 (2/3) (VIDEO TBC)



PR-48 (2/3)

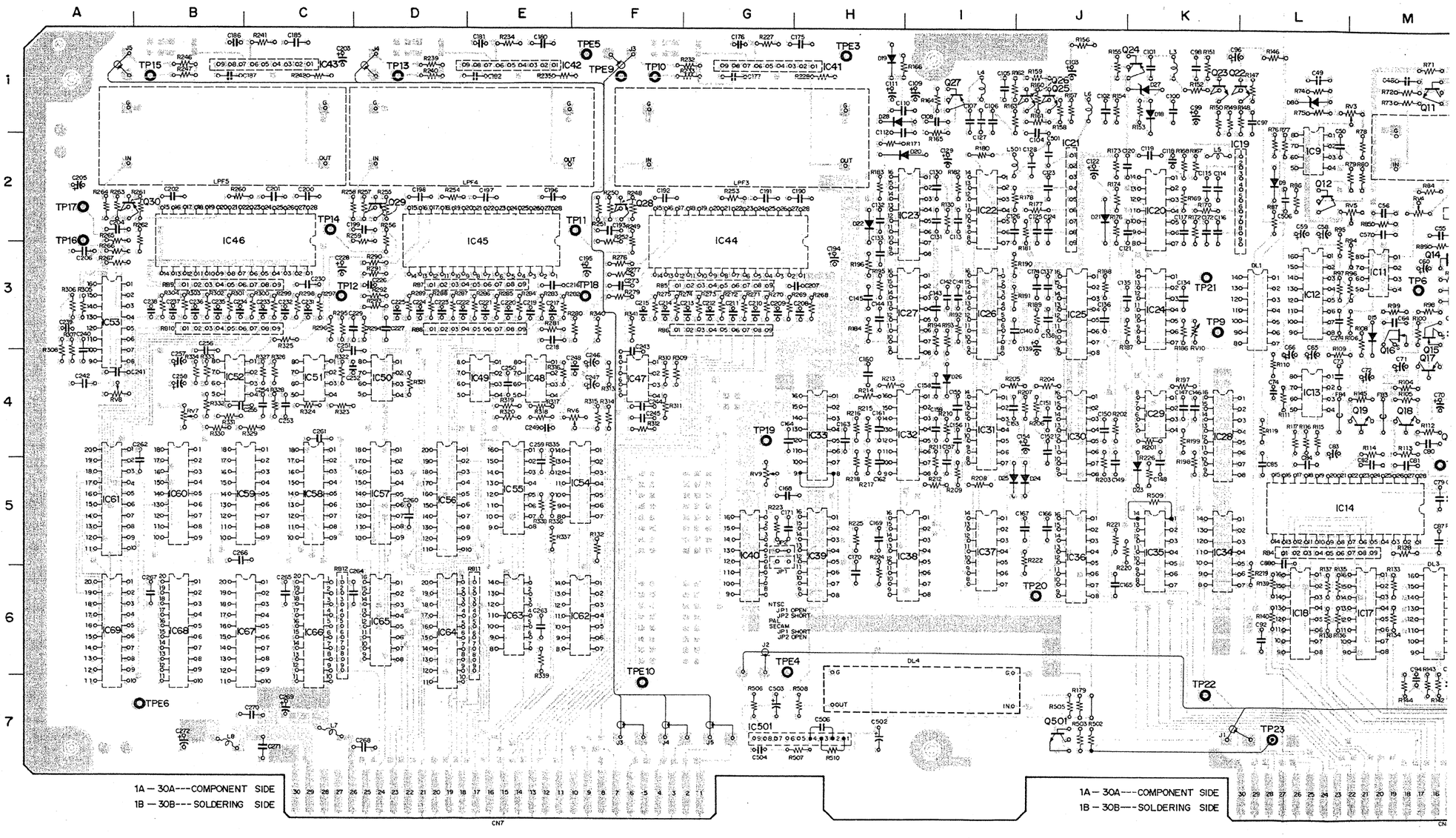


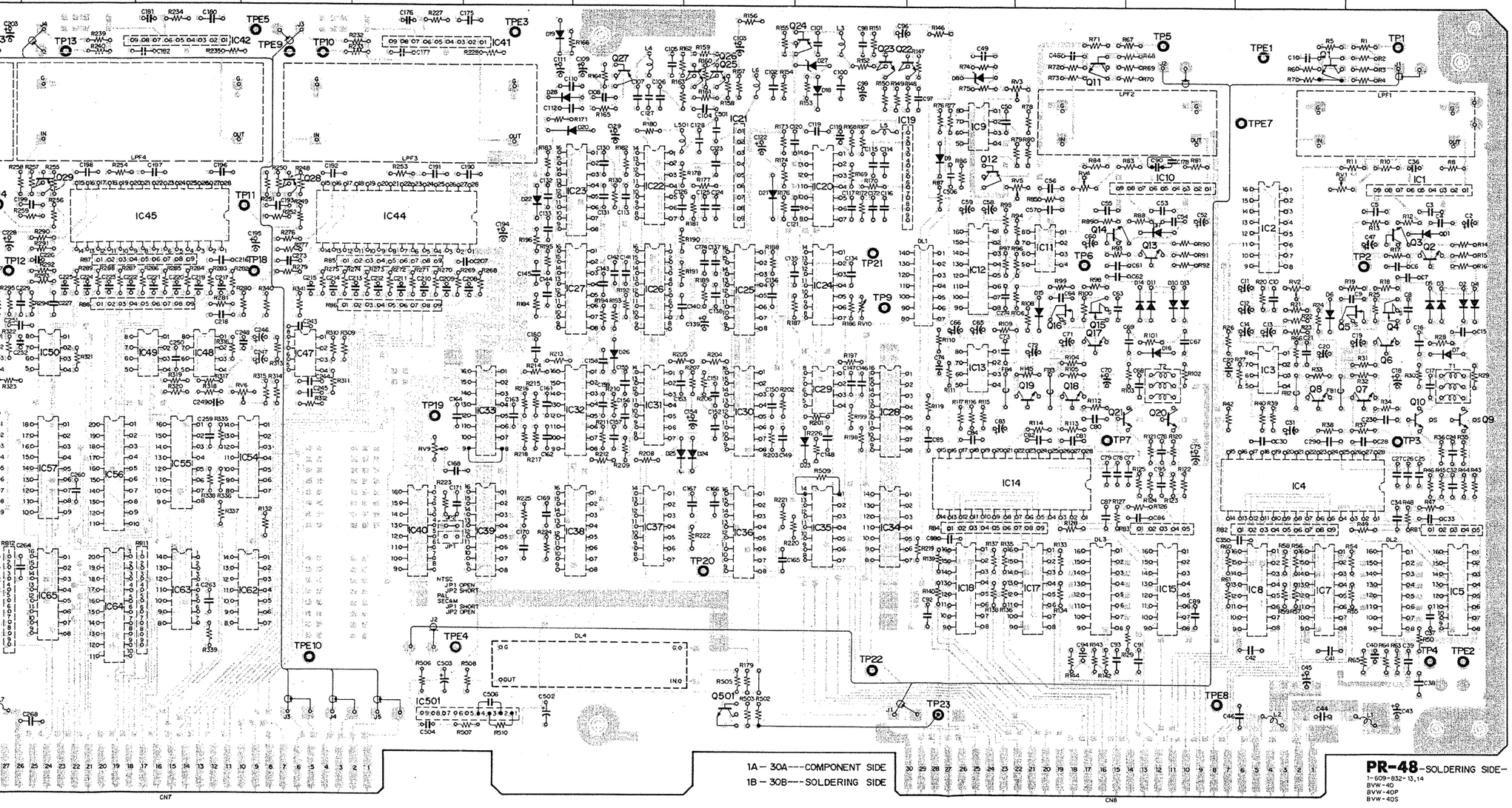
PR-48(2/3)

1-6091 830-13
BVW-D20
BVW-D25

PR-48 (VIDEO TBC)

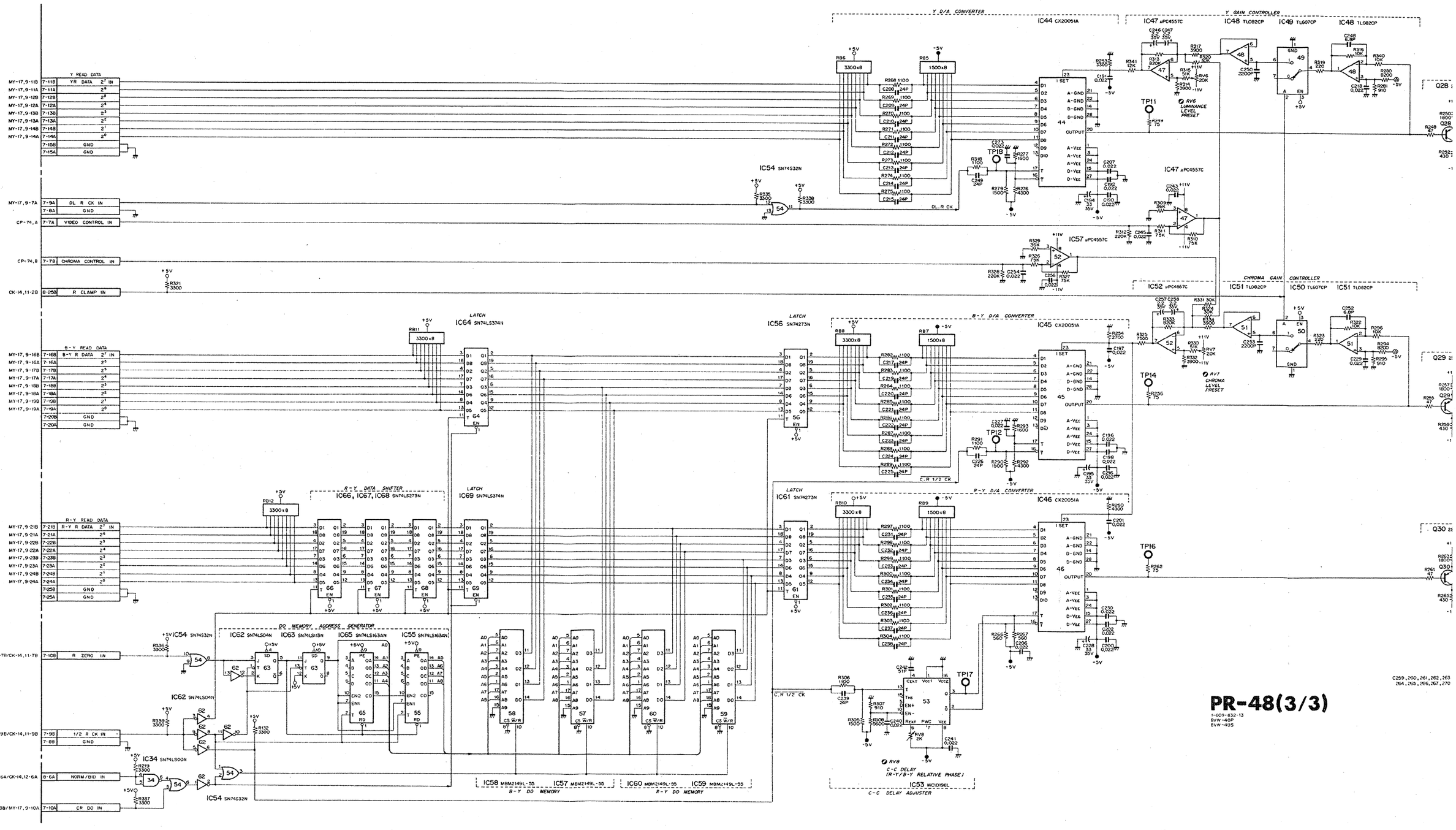
Ref. No.	Type	Pin No.					
		−11V	−5V	GND	+5V	+11V	+12V
IC 1	BX365A	9		4, 7		3	
IC 2	HI1-201-5	4		5		13	
IC 3	TL082CP	4				8	
IC 4	CX20052		14, 19, 23	4, 13, 15, 20, 22			
IC 5	HD10105		8		1, 16		
IC 7	HD10125		8	16	9		
IC 8	HD10125		8	16	9		
IC 9	μPC4557C	4				8	
IC 10	BX365A	9		4, 7		3	
IC 11	TL082CP	4				8	
IC 12	HI1-201-5	4		5		13	
IC 13	TL082CP	4				8	
IC 14	CX20052		4, 19, 23	4, 13, 15, 20, 22			
IC 15	HD10105		8		1, 16		
IC 17	HD10125		8	16	9		
IC 18	HD10125		8	16	9		
IC 19	BX365A	9		4, 7		3	
IC 20	μPC319C	6				11	
IC 21	BX365A	9		4, 7		3	
IC 22	μPC319C	6		3, 8		11	
IC 23	HA1-4905-5	5		9	1	13	
IC 24	TL084CN	11				4	
IC 25	HI1-201-5	4		5		13	
IC 26	SN74LS123N			8	16		
IC 27	HI1-201-5	4		5		13	
IC 28	SN74LS221N			8	16		
IC 29	SN75451BP			4	8		
IC 30	HA1-4905-5	5		9	1	13	
IC 31	TL084CN	11				4	
IC 32	HA1-4905-5	5		9	1	13	
IC 33	HI1-201-5	4		5		13	
IC 34	SN74LS00N			7	14		
IC 35	SN74LS74AN			7	14		
IC 36	SN74LS221N			8	16		
IC 37	SN74LS20N			7	14		
IC 38	TC4528BP			8	16		
IC 39	SN74LS221N			8	16		
IC 40	TC4022BP			8	16		
IC 41	BX365A	9		4, 7		3	
IC 42	BX365A	9		4, 7		3	
IC 43	BX365A	6		4, 7		3	
IC 44	CX20051A			1, 3, 15, 21, 27	14, 21, 22, 28		
IC 45	CX20051A			1, 3, 15, 21, 27	14, 21, 22, 28		
IC 46	CX20051A			1, 3, 15, 21, 27	14, 21, 22, 28		
IC 47	μPC1557C	4				8	
IC 48	TL082CP	4				8	
IC 49	TL607CP	5		1		8	
IC 50	TL607CP	5		1		8	
IC 51	TL082CP	4				8	
IC 52	μPC1557C	1				8	
IC 53	MC10198L			8	1, 16		
IC 54	SN74S32N			7	14		
IC 55	SN74LS163AN			8	16		
IC 56	SN74273N			10	20		
IC 57	MBM2149L-55			9	18		
IC 58	MBM2149L-55			9	18		
IC 59	MBM2149L-55			9	18		
IC 60	MBM2149L-55			9	18		
IC 61	SN74273N			10	20		
IC 62	SN74LS04N			7	14		
IC 63	SN74LS113AN			7	14		
IC 64	SN74LS374N			10	20		
IC 65	SN74LS163AN			8	16		
IC 66	SN74LS273N			10	20		
IC 67	SN74LS273N			10	20		
IC 68	SN74LS273N			10	20		
IC 69	SN74LS374N			10	20		
IC501	BX365A	9		4, 7		3	





D1	P - 3	IC41	G - 1	RV1	O - 2
D2	P - 3	IC42	E - 1	RV2	O - 3
D3	P - 3	IC43	C - 1	RV3	M - 1
D4	P - 3	IC44	G - 2	RV4	M - 2
D5	P - 3	IC45	E - 2	RV5	M - 2
D6	O - 3	IC46	B - 2	RV6	F - 4
D7	P - 4	IC47	F - 4	RV7	B - 4
D8	L - 1	IC48	E - 4	RV8	A - 4
D9	L - 2	IC49	E - 4	RV9	G - 5
D10	N - 3	IC50	D - 4	RV10	K - 3
D11	N - 3	IC51	C - 4		
D13	N - 3	IC52	B - 4	T1	P - 4
D14	N - 3	IC53	A - 3	T2	N - 4
D15	M - 3	IC54	F - 5		
D16	N - 4	IC55	E - 5	TP1	P - 1
D17	N - 3	IC56	D - 5	TP2	P - 3
D18	K - 1	IC57	D - 5	TP3	P - 5
D19	H - 1	IC58	C - 5	TP4	P - 7
D20	I - 2	IC59	C - 5	TP5	N - 1
D21	J - 2	IC60	B - 5	TP6	M - 3
D22	H - 2	IC61	A - 5	TP7	M - 5
D23	K - 5	IC62	F - 6	TP9	K - 3
D24	J - 5	IC63	E - 6	TP10	F - 1
D25	J - 5	IC64	D - 6	TP11	P - 2
D26	I - 4	IC65	D - 6	TP12	C - 3
D27	K - 1	IC66	C - 6	TP13	D - 1
D28	H - 1	IC67	C - 6	TP14	C - 2
		IC68	B - 6	TP15	B - 1
DL1	L - 3	IC69	A - 6	TP16	A - 2
DL2	P - 6	IC501	G - 7	TP17	A - 3
DL3	M - 6			TP18	F - 3
DL4	H - 6	LPF1	P - 1	TP19	G - 4
		LPF2	N - 2	TP20	J - 6
IC1	P - 2	LPF3	G - 2	TP21	K - 3
IC2	O - 3	LPF4	E - 2	TP22	K - 7
IC3	O - 4	LPF5	B - 2	TP23	L - 7
IC4	O - 5				
IC5	P - 6	Q1	O - 1	TPE1	O - 1
IC7	O - 6	Q2	P - 3	TPE2	P - 7
IC8	O - 6	Q3	P - 3	TPE3	H - 1
IC9	L - 2	Q4	P - 3	TPE4	G - 6
IC10	N - 2	Q5	P - 3	TPE5	F - 1
IC11	M - 3	Q6	P - 4	TPE6	B - 7
IC12	L - 3	Q7	P - 4	TPE7	O - 2
IC13	L - 4	Q8	O - 4	TPE8	N - 7
IC14	M - 5	Q9	P - 4	TPE9	F - 1
IC15	N - 6	Q10	P - 4	TPE10	F - 7
IC17	M - 6	Q11	M - 1		
IC18	L - 6	Q12	L - 2		
IC19	L - 2	Q13	N - 3		
IC20	K - 2	Q14	M - 3		
IC21	J - 2	Q15	M - 3		
IC22	I - 2	Q16	M - 3		
IC23	I - 2	Q17	M - 4		
IC24	K - 3	Q18	M - 4		
IC25	J - 3	Q19	M - 4		
IC26	I - 3	Q20	N - 4		
IC27	I - 3	Q21	N - 4		
IC28	K - 4	Q22	K - 1		
IC29	K - 4	Q23	K - 1		
IC30	J - 4	Q24	K - 1		
IC31	I - 4	Q25	J - 1		
IC32	I - 4	Q26	J - 1		
IC33	H - 4	Q27	I - 1		
IC34	K - 5	Q28	F - 2		
IC35	K - 5	Q29	D - 2		
IC36	J - 5	Q30	A - 2		
IC37	I - 5	Q501	J - 7		
IC38	I - 5				
IC39	H - 5				
IC40	G - 5				

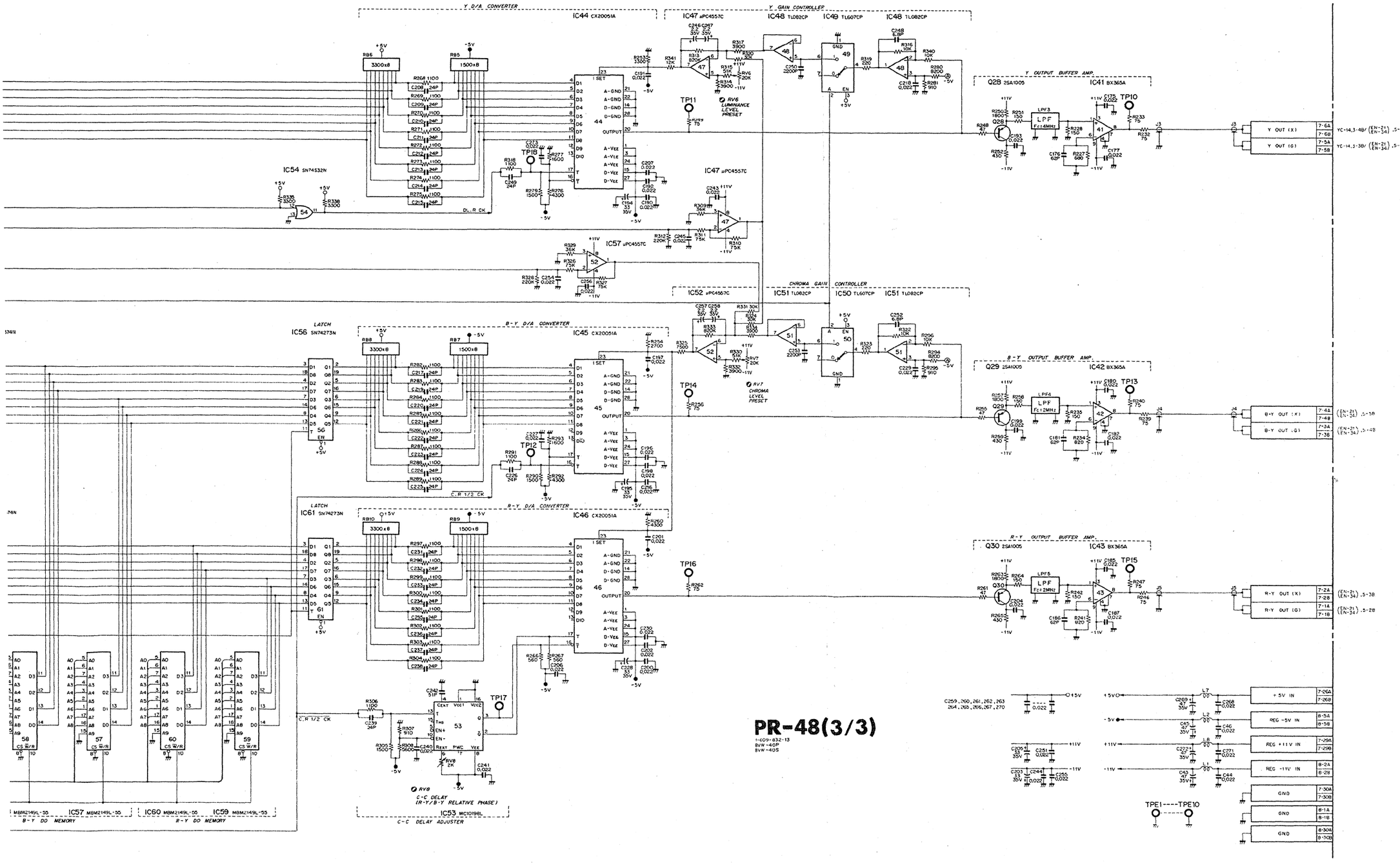
PR-48 (3/3) (VIDEO TBC)



PR-48(3/3)

1-609-832-13
BVW-40P
BVW-40S

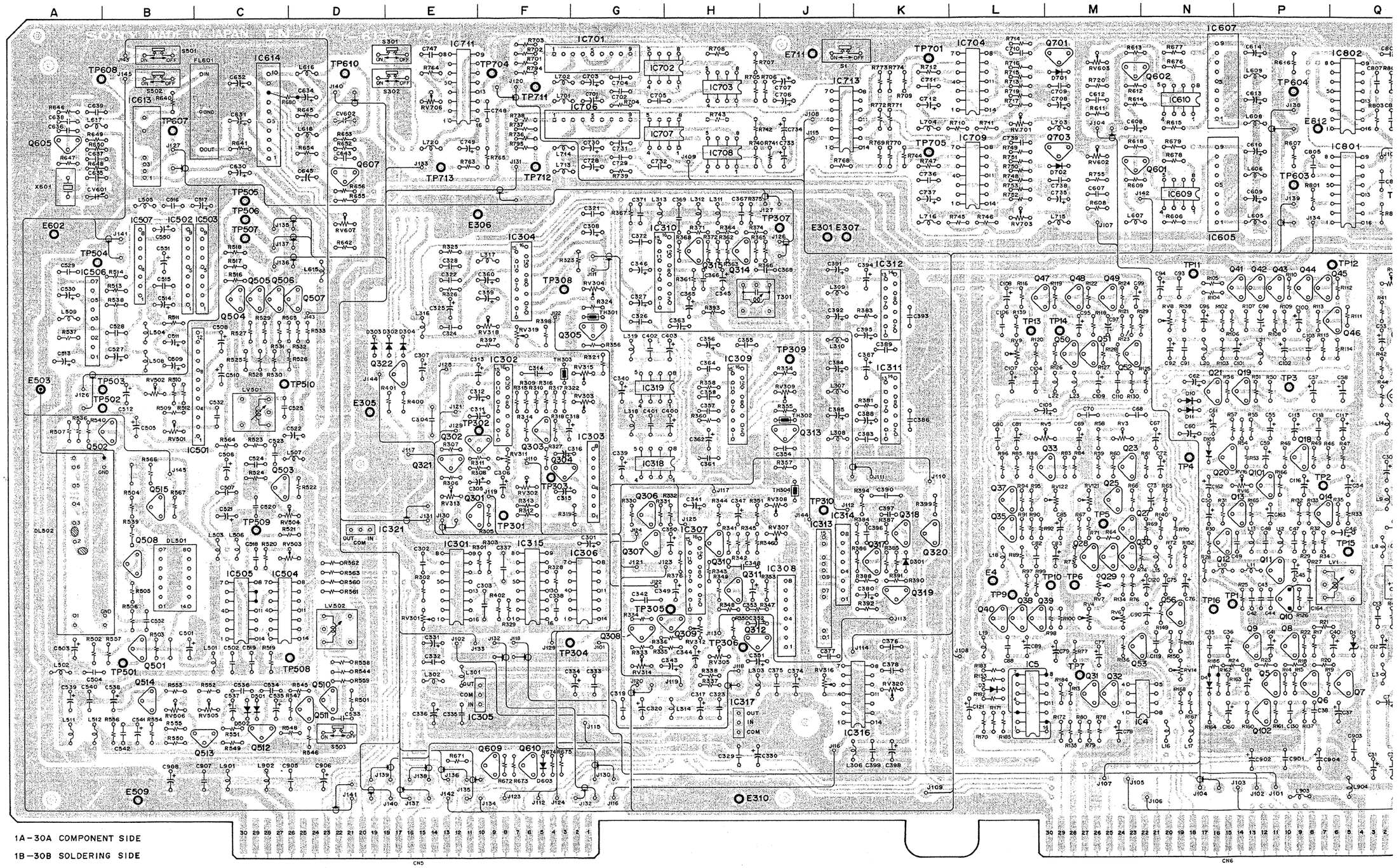
PR-48 (3/3)



PR-48(3/3)

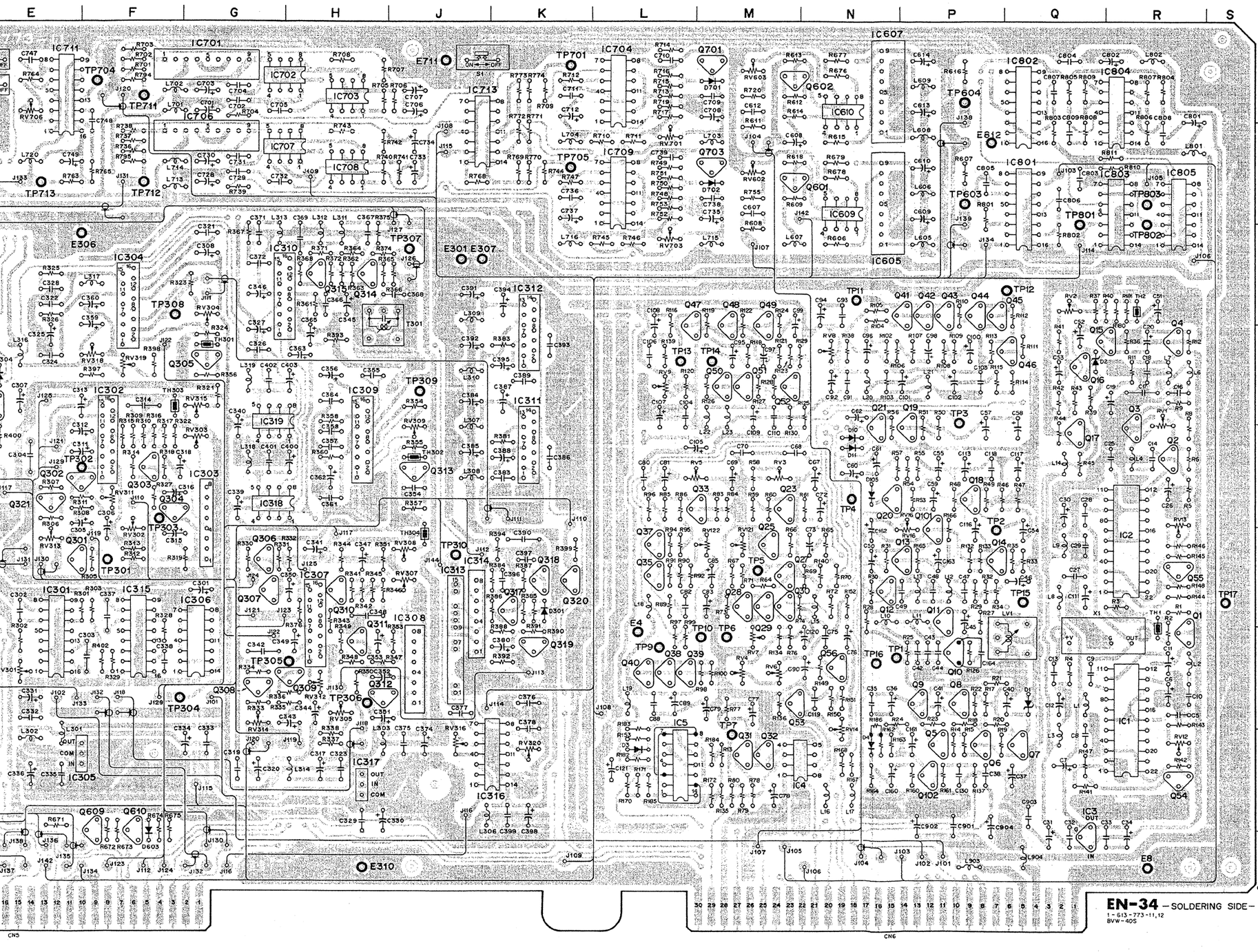
1-609-832-13
BVM-40P
BVM-40S

EN-34 (VIDEO ENCODER)



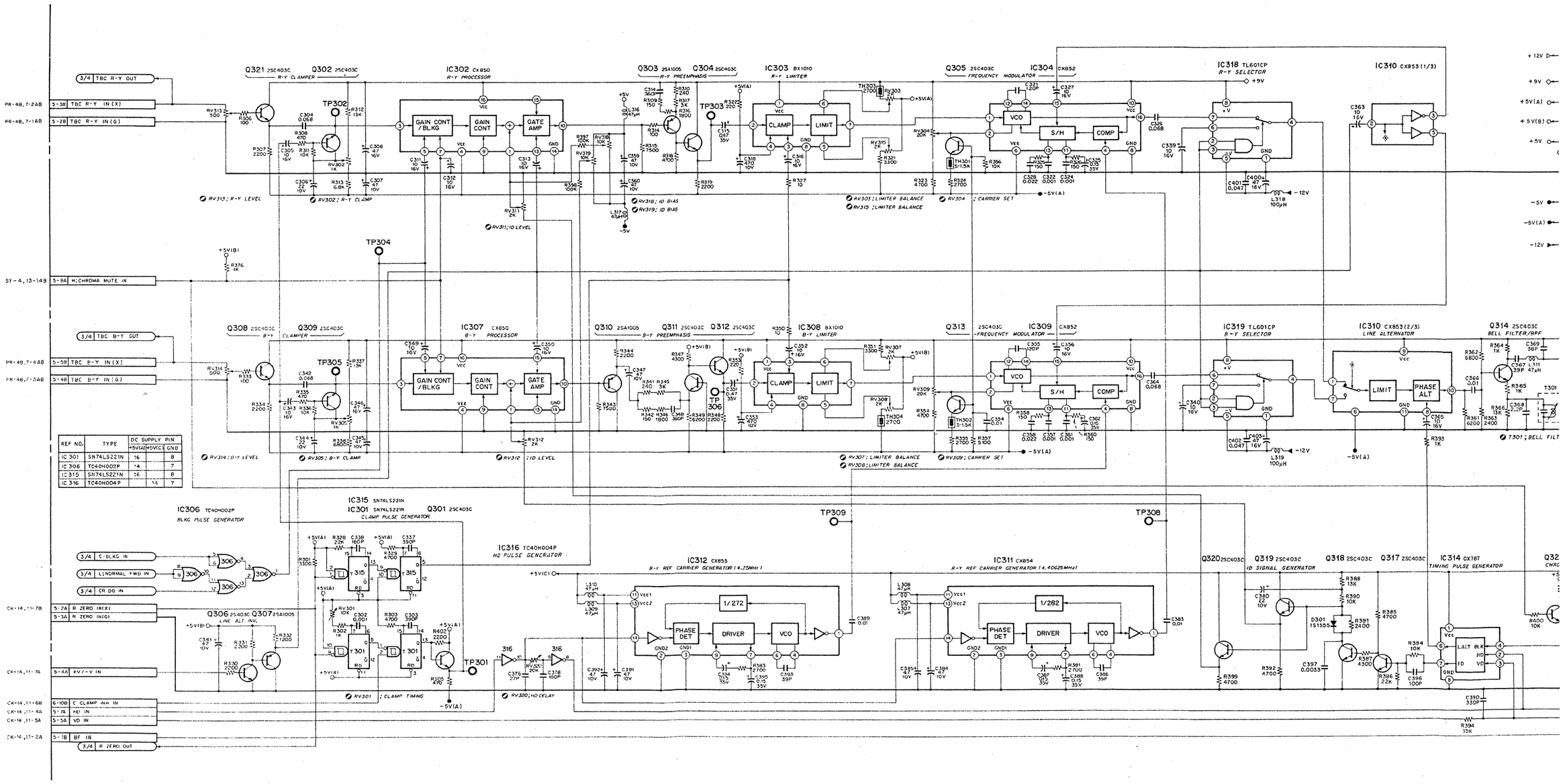
1A–30A COMPONENT SIDE

1B–30B SOLDERING SIDE



CN5	E - 9	Q1	R - 7	RV1	R - 4	TP604	P - 1
CN6	N - 9	Q2	R - 5	RV2	Q - 3	TP607	B - 2
		Q3	R - 4	RV3	M - 5	TP608	A - 1
CV601	B - 2	Q4	R - 4	RV4	M - 7	TP610	D - 1
CV602	D - 1	Q5	P - 8	RV5	L - 5	TP701	K - 1
		Q6	P - 8	RV6	M - 7	TP704	F - 1
D1	Q - 7	Q7	Q - 8	RV7	M - 7	TP705	K - 2
D2	Q - 4	Q8	P - 7	RV8	N - 4	TP711	F - 1
D3	L - 8	Q9	P - 7	RV9	L - 4	TP712	F - 2
D4	N - 8	Q10	P - 7	RV12	R - 8	TP713	E - 2
D10	N - 5	Q11	P - 7	RV13	R - 6	TP801	Q - 2
D11	N - 5	Q12	N - 6	RV14	N - 7	TP802	R - 3
D105	N - 5	Q13	N - 6	RV16	P - 5	TP803	R - 2
D301	K - 6	Q14	P - 6	RV121	M - 6		
D302	E - 4	Q15	R - 4	RV122	M - 6	X1	Q - 7
D303	D - 4	Q16	Q - 4	RV301	E - 7	X601	A - 2
D304	E - 4	Q17	Q - 5	RV302	F - 6		
D501	C - 8	Q18	P - 5	RV303	G - 5		
D502	C - 8	Q19	P - 4	RV304	G - 3		
D603	F - 8	Q20	N - 5	RV305	H - 8		
D701	M - 1	Q21	N - 5	RV307	J - 6		
D702	M - 2	Q23	M - 5	RV308	J - 6		
		Q25	M - 6	RV309	J - 5		
DL501	B - 7	Q27	M - 6	RV311	F - 5		
DL502	A - 7	Q28	M - 6	RV312	H - 7		
		Q29	M - 6	RV313	E - 6		
E1	L - 7	Q30	M - 6	RV314	G - 7		
E8	R - 9	Q31	M - 8	RV315	G - 4		
E301	J - 3	Q32	M - 8	RV316	J - 7		
E305	D - 5	Q33	L - 5	RV318	E - 4		
E306	F - 3	Q35	L - 6	RV319	F - 4		
E307	J - 3	Q37	L - 6	RV320	K - 8		
E310	H - 9	Q38	L - 7	RV501	B - 5		
E503	A - 5	Q39	L - 7	RV502	B - 4		
E509	B - 9	Q40	L - 7	RV503	D - 6		
E602	A - 3	Q41	P - 3	RV504	D - 6		
E711	J - 1	Q42	P - 3	RV505	B - 8		
E812	P - 2	Q43	P - 3	RV506	B - 8		
		Q44	P - 3	RV602	M - 2		
FL601	B - 1	Q45	P - 3	RV603	M - 1		
		Q46	Q - 4	RV607	D - 3		
IC1	Q - 7	Q47	L - 4	RV701	L - 2		
IC2	Q - 6	Q48	M - 4	RV703	L - 3		
IC3	Q - 8	Q49	M - 3	RV706	E - 1		
IC4	N - 8	Q50	M - 4				
IC5	L - 8	Q51	M - 4	S1	K - 1		
IC301	E - 7	Q52	N - 4	S301	D - 1		
IC302	F - 4	Q53	M - 7	S302	D - 1		
IC303	G - 5	Q54	R - 8	S501	B - 1		
IC304	F - 3	Q55	R - 6	S502	B - 1		
IC305	F - 8	Q56	N - 7	S503	D - 8		
IC306	F - 7	Q101	P - 6				
IC307	H - 7	Q102	P - 8	T301	J - 3		
IC308	J - 7	Q301	E - 6				
IC309	H - 5	Q302	F - 5	TH1	R - 7		
IC310	H - 3	Q303	F - 5	TH2	R - 3		
IC311	K - 4	Q304	G - 5	TH301	F - 4		
IC312	K - 4	Q305	G - 4	TH302	J - 5		
IC313	J - 6	Q306	G - 6	TH303	F - 4		
IC314	J - 7	Q307	G - 6	TH304	J - 6		
IC315	P - 7	Q308	G - 7				
IC316	J - 8	Q309	G - 7	TP1	N - 7		
IC317	J - 8	Q310	H - 6	TP2	Q - 5		
IC318	G - 6	Q311	H - 7	TP3	P - 5		
IC319	G - 4	Q312	J - 7	TP4	N - 5		
IC321	D - 5	Q313	J - 5	TP5	M - 6		
IC501	C - 5	Q314	H - 3	TP6	M - 6		
IC502	B - 3	Q315	H - 3	TP7	M - 8		
IC503	C - 3	Q317	K - 6	TP9	L - 7		
IC504	C - 7	Q318	K - 6	TP10	M - 7		
IC505	C - 7	Q319	K - 7	TP11	N - 3		
IC506	A - 4	Q320	K - 6	TP12	Q - 3		
IC507	B - 4	Q321	E - 5	TP13	L - 4		
IC605	N - 2	Q322	E - 4	TP14	M - 4		
IC607	N - 1	Q501	B - 7	TP15	Q - 6		
IC609	N - 2	Q502	B - 5	TP16	N - 7		
IC610	N - 1	Q503	C - 5	TP17	S - 6		
IC613	B - 2	Q504	C - 4	TP301	F - 6		
IC614	C - 1	Q505	C - 4	TP302	E - 5		
IC701	G - 1	Q506	C - 4	TP303	F - 5		
IC702	G - 1	Q507	D - 4	TP304	F - 7		
IC703	H - 1	Q508	B - 6	TP305	G - 7		
IC704	L - 1	Q510	D - 8	TP306	H - 7		
IC706	F - 1	Q511	D - 8	TP307	J - 3		
IC707	H - 2	Q512	C - 8	TP308	F - 3		
IC708	H - 2	Q513	B - 8	TP309	J - 4		
IC709	L - 2	Q514	B - 8	TP310	J - 6		
IC711	E - 1	Q515	B - 6	TP501	B - 7		
IC713	J - 1	Q601	M - 2	TP502	A - 5		
IC801	P - 2	Q602	M - 1	TP503	B - 4		
IC802	P - 1	Q605	A - 2	TP504	A - 3		
IC803	Q - 2	Q607	D - 2	TP505	C - 2		
IC804	Q - 1	Q609	F - 8	TP506	C - 3		
IC805	R - 2	Q610	F - 8	TP507	C - 3		
		Q701	M - 1	TP508	D - 7		
LV1	Q - 7	Q703	M - 2	TP509	C - 6		
LV501	C - 5			TP510	D - 4		
LV502	D - 7			TP603	P - 2		

EN-34 (1/4) (VIDEO ENCODER)



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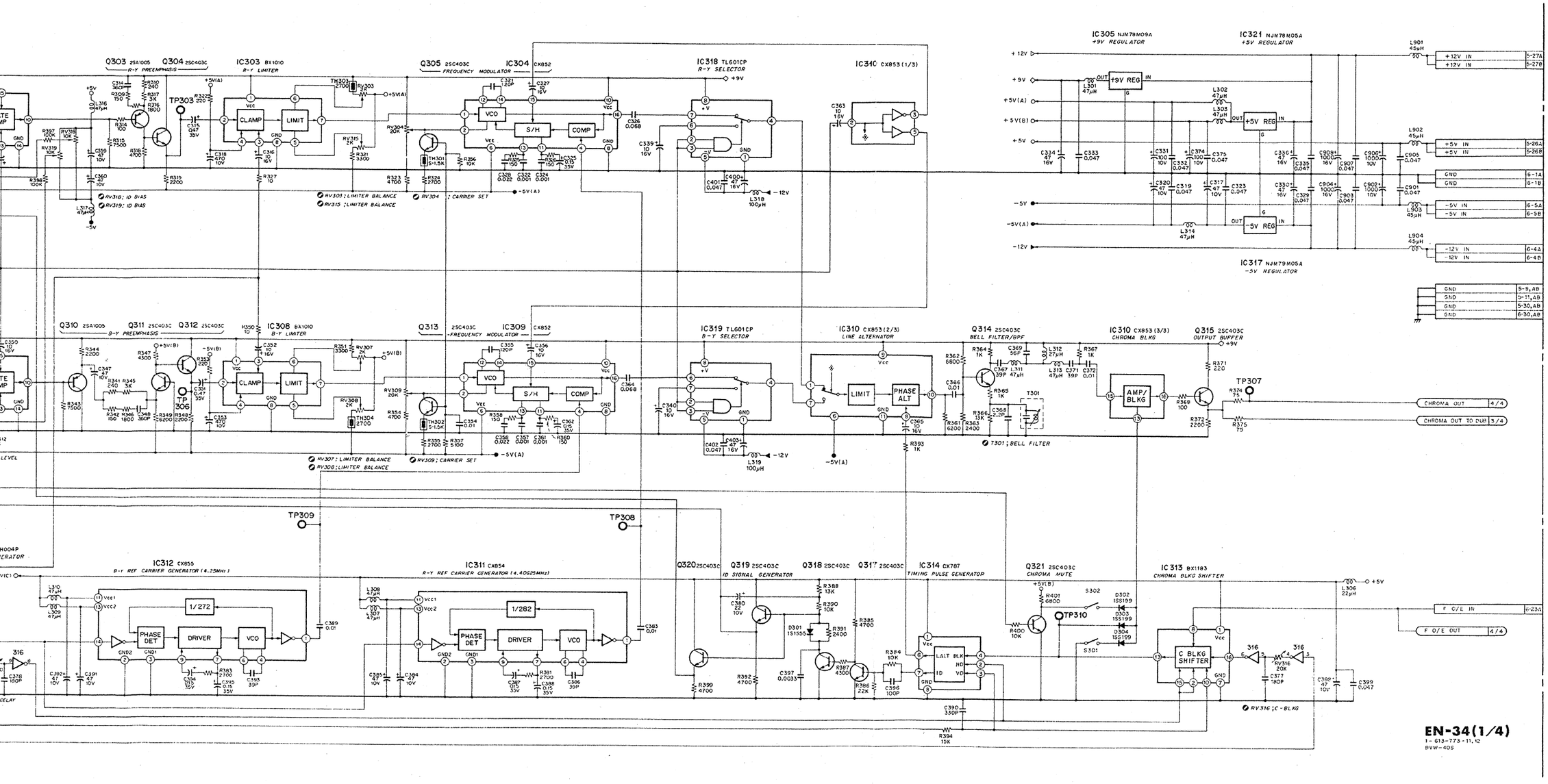
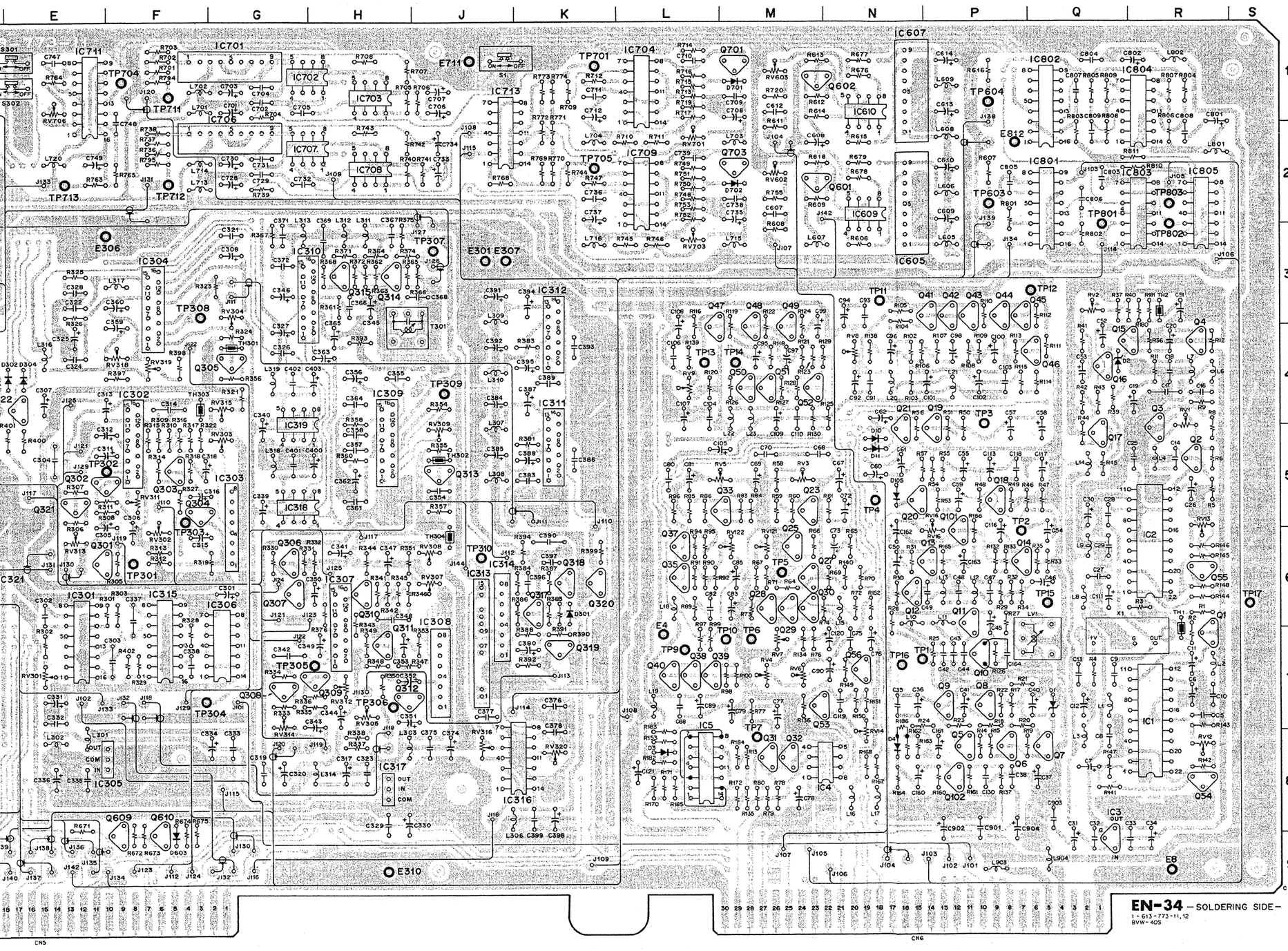
IC 301	SN74LS221N	16		8
IC 306	TC40H002P	14		7
IC 315	SN74LS221N	16		8
IC 316	TC40H004P		14	7



EN-34(1/4)

1-613-773-11, 12

BVW-40S



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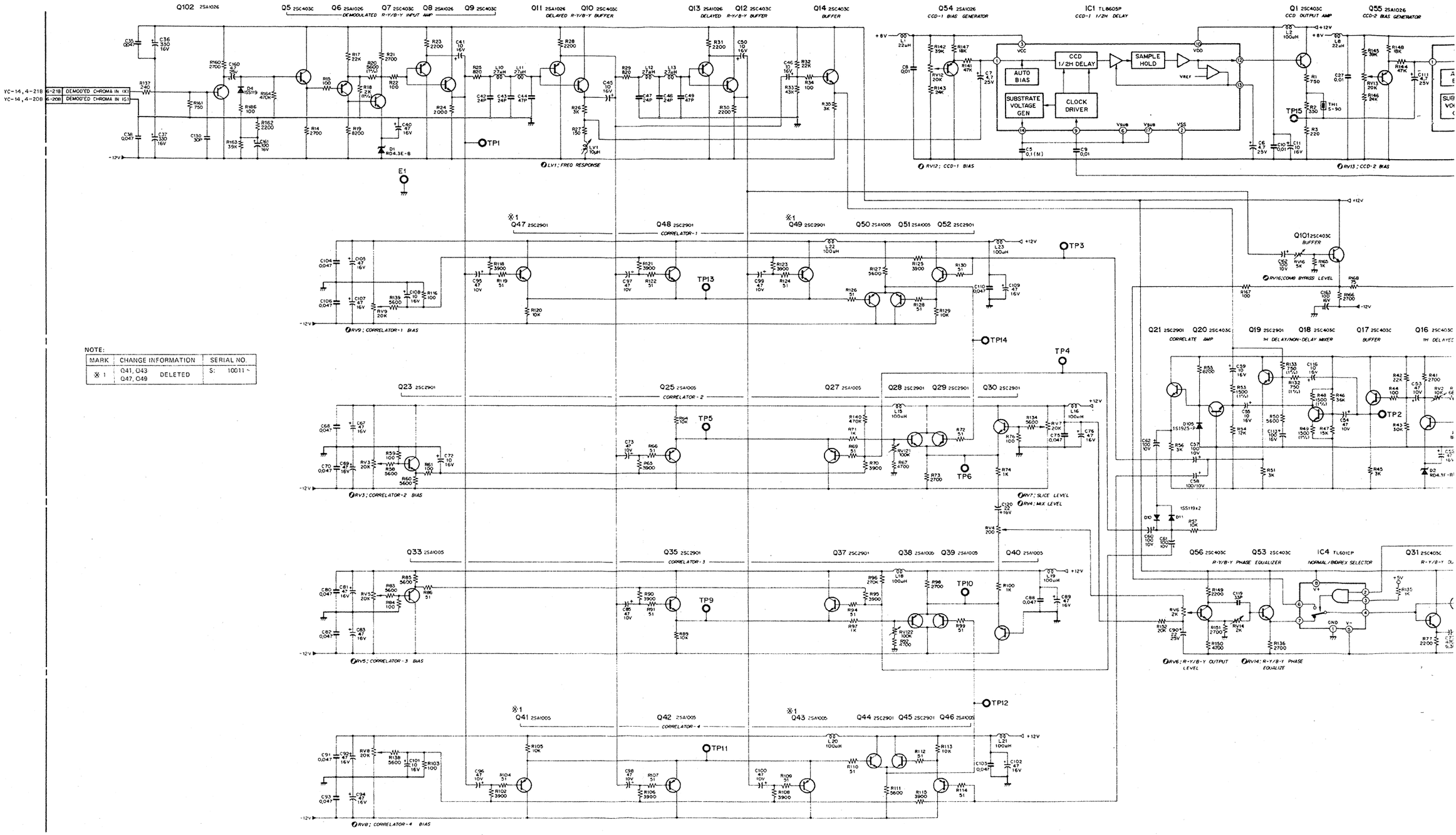
CN6	N - 9	Q2	R - 5	RV2	Q - 3	TP607	B - 2
		Q3	R - 4	RV3	M - 5	TP608	A - 1
CV601	B - 2	Q4	R - 4	RV4	M - 7	TP610	D - 1
CV602	D - 1	Q5	P - 8	RV5	L - 5	TP701	K - 1
		Q6	P - 8	RV6	M - 7	TP701	F - 1
D1	Q - 7	Q7	Q - 8	RV7	M - 7	TP705	K - 2
D2	Q - 4	Q8	P - 7	RV8	N - 4	TP711	F - 1
D3	L - 8	Q9	P - 7	RV9	L - 4	TP712	F - 2
D4	N - 8	Q10	P - 7	RV12	R - 8	TP713	E - 2
D10	N - 5	Q11	P - 7	RV13	R - 6	TP801	Q - 2
D11	N - 5	Q12	N - 6	RV14	N - 7	TP802	R - 3
D105	N - 5	Q13	N - 6	RV16	P - 5	TP803	R - 2
D301	K - 6	Q14	P - 6	RV121	M - 6		
D302	E - 4	Q15	R - 4	RV122	M - 6	X1	Q - 7
D303	D - 4	Q16	Q - 4	RV301	E - 7	X601	A - 2
D304	E - 4	Q17	Q - 5	RV302	F - 6		
D501	C - 8	Q18	P - 5	RV303	G - 5		
D502	C - 8	Q19	P - 4	RV304	G - 3		
D603	F - 8	Q20	N - 5	RV305	H - 8		
D701	M - 1	Q21	N - 5	RV307	J - 6		
D702	M - 2	Q29	M - 5	RV308	J - 6		
		Q25	M - 6	RV309	J - 5		
DL501	B - 7	Q27	M - 6	RV311	F - 5		
DL502	A - 7	Q28	M - 6	RV312	H - 7		
		Q29	M - 6	RV313	E - 6		
E4	L - 7	Q30	M - 6	RV314	G - 7		
E8	R - 9	Q31	M - 8	RV315	G - 4		
E301	J - 3	Q32	M - 8	RV316	J - 7		
E305	P - 5	Q33	L - 5	RV318	K - 4		
E306	P - 3	Q35	L - 6	RV319	F - 4		
E307	J - 3	Q36	L - 6	RV320	K - 8		
E310	H - 9	Q37	L - 7	RV501	B - 5		
B503	A - 5	Q39	L - 7	RV502	B - 4		
B509	B - 9	Q40	L - 7	RV503	D - 6		
B602	A - 3	Q41	P - 3	RV504	D - 6		
E711	J - 1	Q42	P - 3	RV505	B - 8		
E812	P - 2	Q43	P - 3	RV506	B - 8		
		Q44	P - 3	RV602	M - 2		
FL601	B - 1	Q45	P - 3	RV603	M - 1		
		Q46	Q - 4	RV607	D - 3		
IC1	Q - 7	Q47	L - 4	RV701	L - 2		
IC2	Q - 6	Q48	M - 4	RV703	L - 3		
IC3	Q - 8	Q49	M - 3	RV706	E - 1		
IC4	N - 8	Q50	M - 4				
IC5	L - 8	Q51	M - 4	S1	K - 1		
IC301	E - 7	Q52	N - 4	S301	D - 1		
IC302	F - 4	Q53	M - 7	S302	D - 1		
IC303	G - 5	Q54	R - 8	S501	B - 1		
IC304	F - 3	Q55	R - 6	S502	B - 1		
IC305	F - 8	Q56	N - 7	S503	D - 8		
IC306	F - 7	Q101	P - 6				
IC307	H - 7	Q102	P - 8	T301	J - 3		
IC308	J - 7	Q301	E - 6				
IC309	H - 5	Q302	F - 5	TH1	R - 7		
IC310	H - 3	Q303	F - 5	TH2	R - 3		
IC311	K - 4	Q304	Q - 5	TH301	F - 4		
IC312	K - 4	Q305	G - 4	TH302	J - 5		
IC313	J - 6	Q306	G - 6	TH303	F - 1		
IC314	J - 7	Q307	G - 6	TH304	J - 6		
IC315	F - 7	Q308	G - 7				
IC316	J - 8	Q309	G - 7	TP1	N - 7		
IC317	J - 8	Q310	H - 6	TP2	Q - 5		
IC318	G - 6	Q311	H - 7	TP3	P - 5		
IC319	G - 4	Q312	J - 7	TP4	N - 5		
IC321	D - 5	Q313	J - 5	TP5	M - 6		
IC501	C - 5	Q314	H - 3	TP6	M - 6		
IC502	B - 3	Q315	H - 3	TP7	M - 8		
IC503	C - 3	Q317	K - 6	TP9	L - 7		
IC504	C - 7	Q318	K - 6	TP10	M - 7		
IC505	C - 7	Q319	K - 7	TP11	N - 3		
IC506	A - 4	Q320	K - 6	TP12	Q - 3		
IC507	B - 4	Q321	E - 5	TP13	L - 4		
IC601	N - 1	Q501	B - 7	TP14	M - 4		
IC602	N - 2	Q502	B - 5	TP15	Q - 6		
IC603	N - 1	Q503	C - 5	TP16	N - 7		
IC604	B - 2	Q504	C - 4	TP17	S - 6		
IC605	C - 1	Q505	C - 4	TP301	F - 6		
IC606	C - 1	Q506	C - 4	TP302	E - 5		
IC607	G - 1	Q507	D - 4	TP303	F - 5		
IC608	G - 1	Q508	B - 6	TP304	F - 7		
IC609	H - 1	Q510	D - 8	TP305	G - 7		
IC610	L - 1	Q511	D - 8	TP306	H - 7		
IC701	F - 1	Q512	C - 8	TP307	J - 3		
IC702	H - 2	Q513	B - 8	TP308	F - 3		
IC703	H - 2	Q514	B - 8	TP309	J - 4		
IC704	L - 2	Q515	B - 6	TP310	J - 6		
IC705	E - 1	Q601	M - 2	TP501	B - 7		
IC706	J - 1	Q602	M - 1	TP502	A - 5		
IC707	P - 2	Q605	A - 2	TP503	B - 4		
IC708	P - 1	Q607	D - 2	TP504	A - 3		
IC709	Q - 2	Q609	F - 8	TP505	C - 2		
IC710	Q - 1	Q610	F - 8	TP506	C - 3		
IC711	R - 2	Q701	M - 1	TP507	C - 3		
		Q703	M - 2	TP508	D - 7		
LV1	Q - 7			TP509	C - 6		
LV501	C - 5			TP510	D - 4		
LV502	D - 7			TP603	P - 2		

EN-34 – SOLDERING SIDE –
1 - 613 - 773 - 11, 12
BVW - 40S

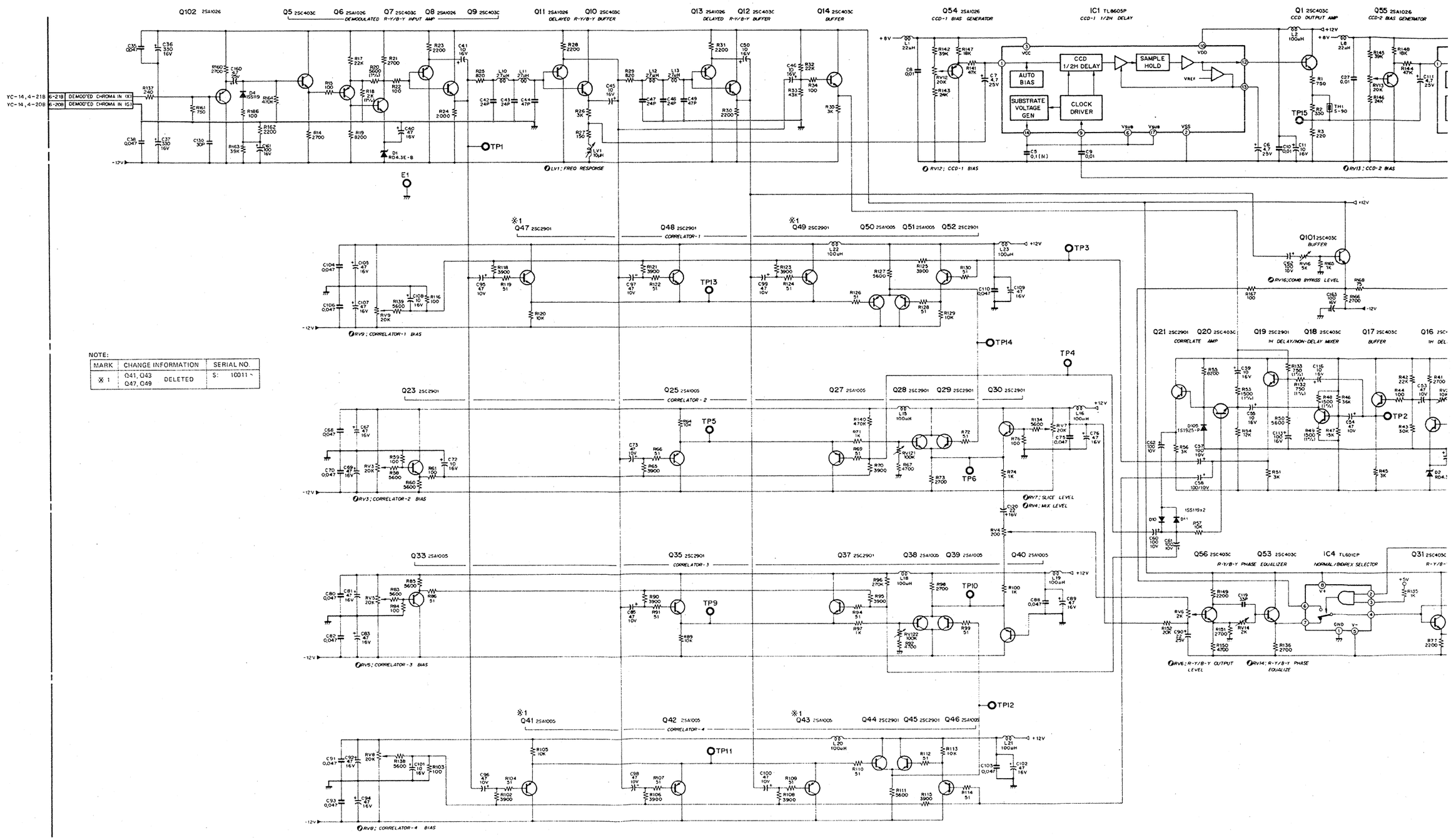
EN-34 (2/4) (CHROMA COMB FILTER)



NOTE:

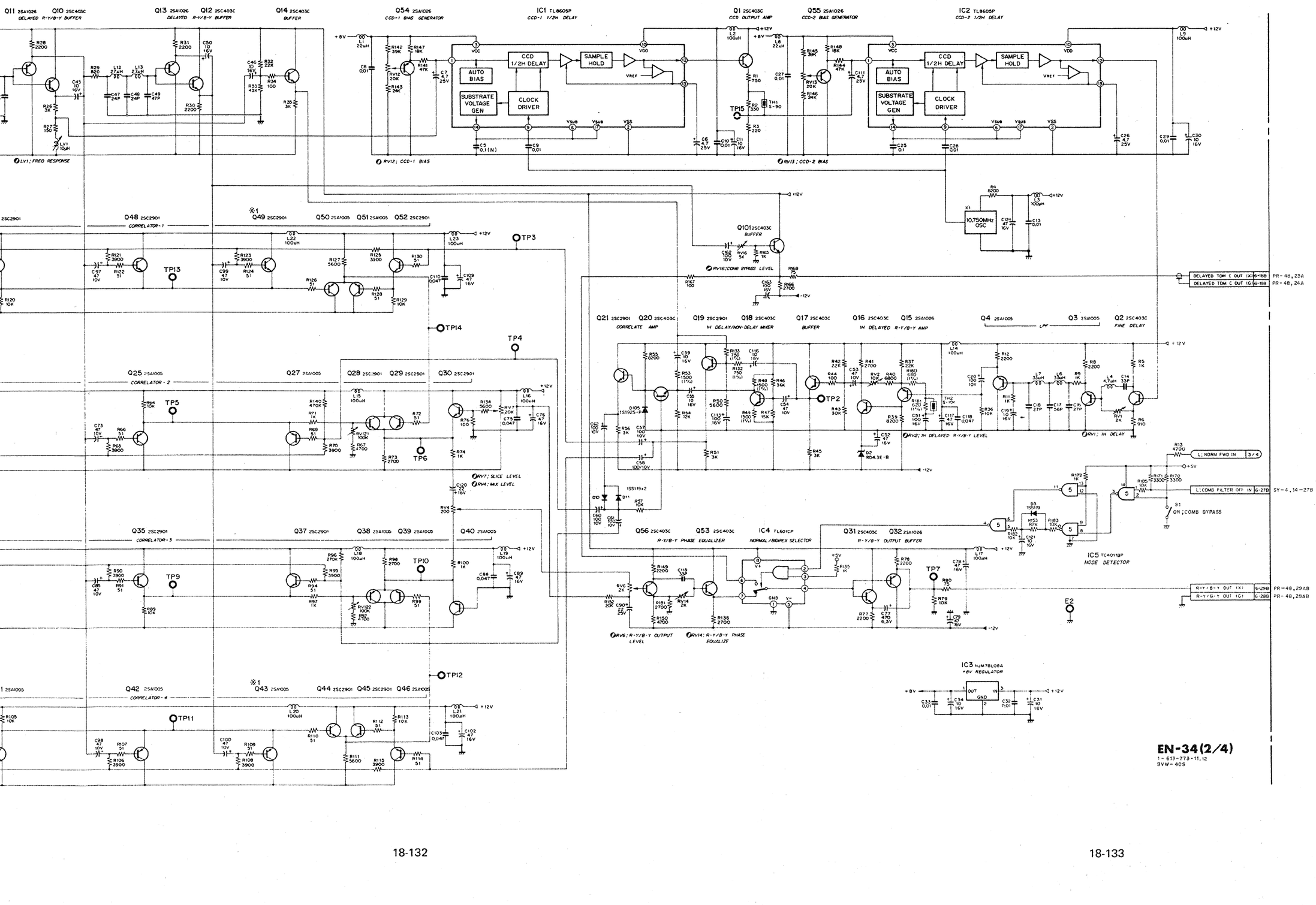
MARK	CHANGE INFORMATION	SERIAL NO.
※1	Q41, Q43 Q47, Q49 DELETED	S: 10011~

EN-34 (2/4) (CHROMA COMB FILTER)



NOTE:

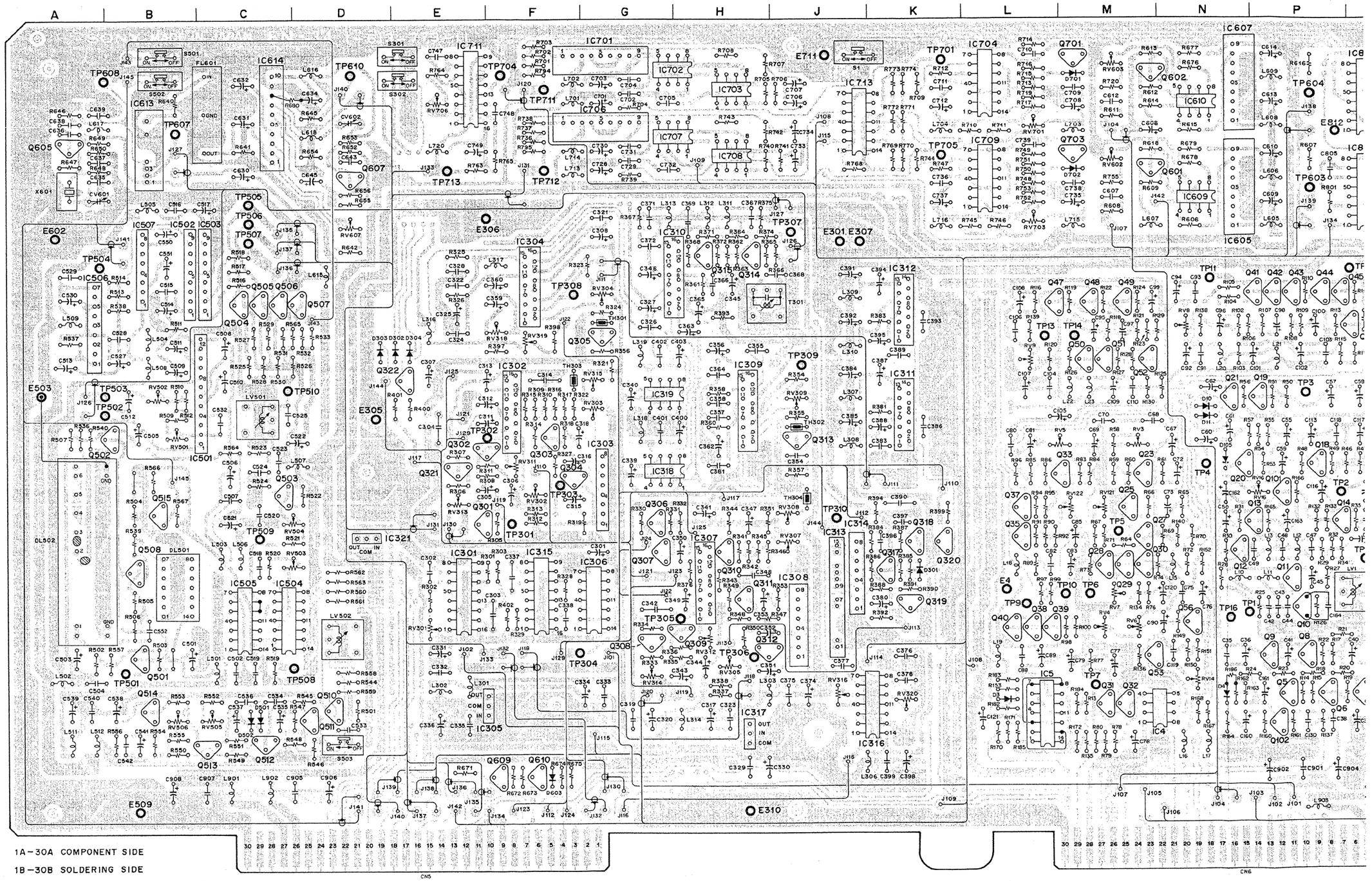
MARK	CHANGE INFORMATION	SERIAL NO.
※1	Q41, Q43 Q47, Q49 DELETED	S: 10011～

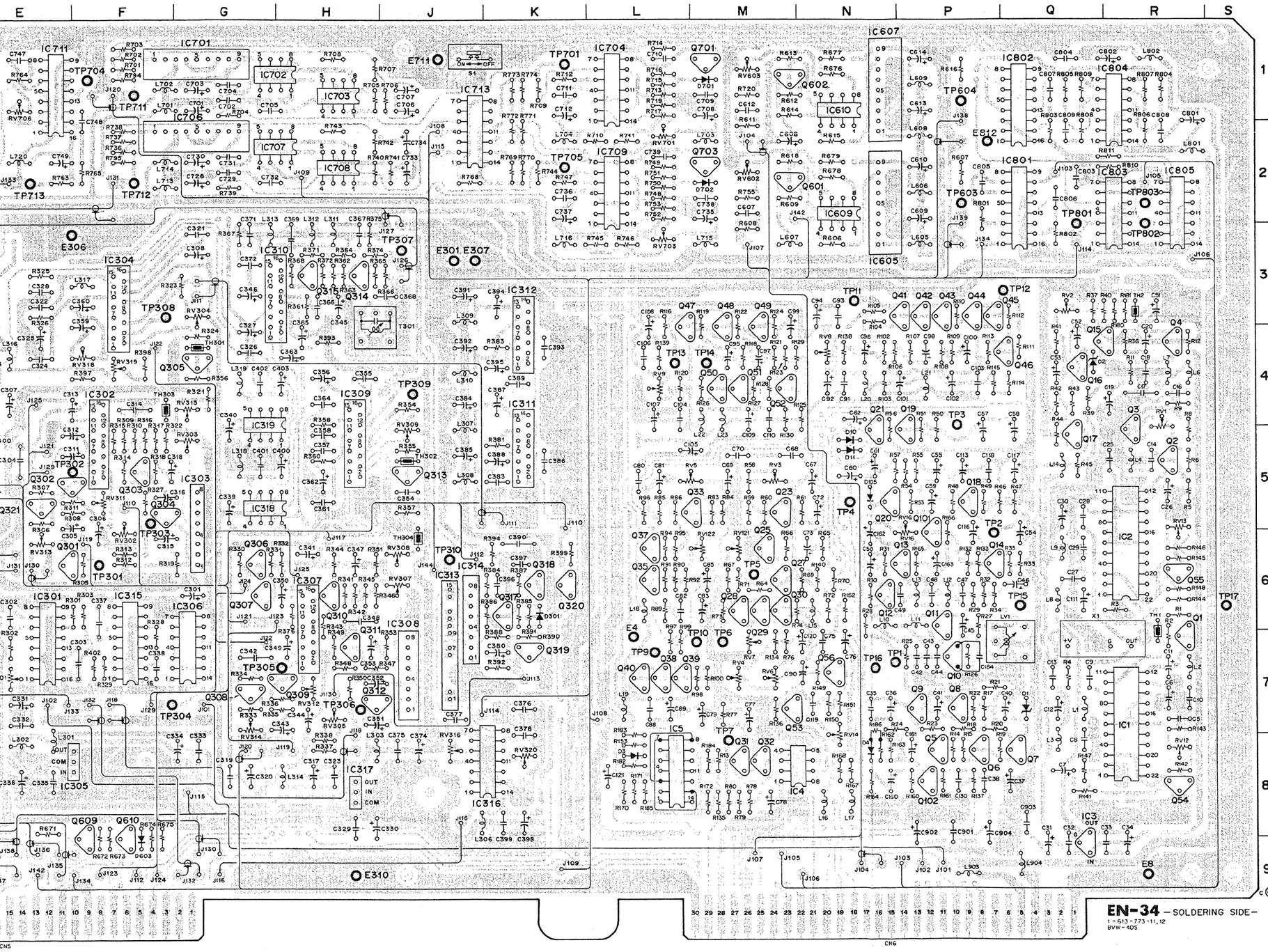


EN-34(2/4)
1-613-773-11,12
9VW-405

EN-34 EN-34

EN-34 (VIDEO ENCODER)





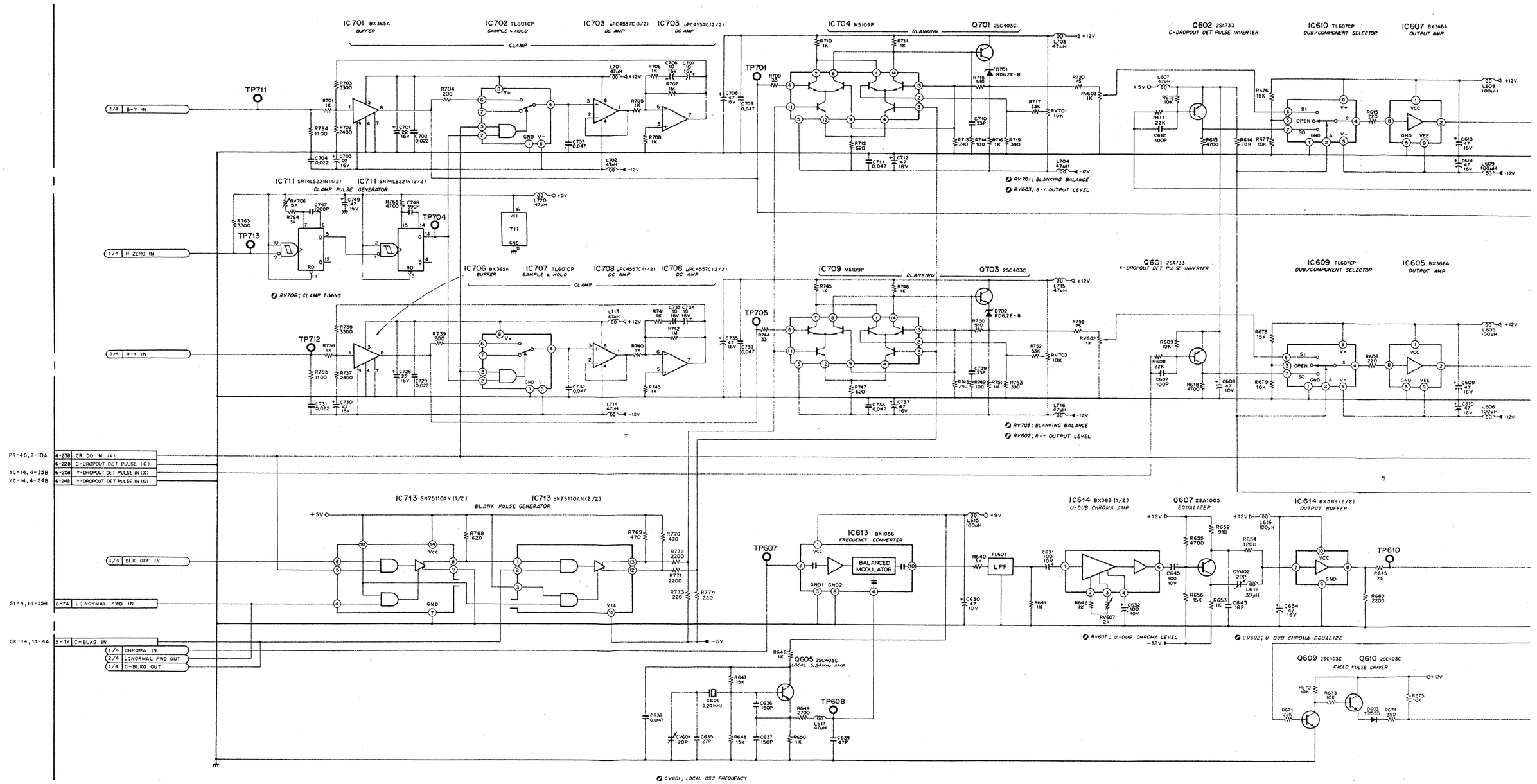
CN5	E - 9	Q1	R - 7	RV1	R - 4	TP604	P - 1
CN6	N - 9	Q2	R - 5	RV2	Q - 3	TP607	B - 2
		Q3	R - 4	RV3	M - 5	TP608	A - 1
CV601	B - 2	Q4	R - 4	RV4	M - 7	TP610	D - 1
CV602	D - 1	Q5	P - 8	RV5	L - 5	TP701	K - 1
		Q6	P - 8	RV6	M - 7	TP704	F - 1
D1	Q - 7	Q7	Q - 8	RV7	M - 7	TP705	K - 2
D2	Q - 4	Q8	P - 7	RV8	N - 4	TP711	F - 1
D3	L - 8	Q9	P - 7	RV9	L - 4	TP712	F - 2
D4	N - 8	Q10	P - 7	RV12	R - 8	TP713	E - 2
D10	N - 5	Q11	P - 7	RV13	R - 6	TP801	Q - 2
D11	N - 5	Q12	N - 6	RV14	N - 7	TP802	R - 3
D105	N - 5	Q13	N - 6	RV16	P - 5	TP803	R - 2
D301	K - 6	Q14	P - 6	RV121	M - 6		
D302	E - 4	Q15	R - 4	RV122	M - 6	X1	Q - 7
D303	D - 4	Q16	Q - 4	RV301	E - 7	X601	A - 2
D304	E - 4	Q17	Q - 5	RV302	F - 6		
D501	C - 8	Q18	P - 5	RV303	G - 5		
D502	C - 8	Q19	P - 4	RV304	G - 3		
D603	F - 8	Q20	N - 5	RV305	H - 8		
D701	M - 1	Q21	N - 5	RV307	J - 6		
D702	M - 2	Q23	M - 5	RV308	J - 6		
		Q25	M - 6	RV309	J - 5		
DL501	B - 7	Q27	M - 6	RV311	F - 5		
DL502	A - 7	Q28	M - 6	RV312	H - 7		
		Q29	M - 6	RV313	E - 6		
E4	L - 7	Q30	M - 6	RV314	G - 7		
E8	R - 9	Q31	M - 8	RV315	G - 4		
E301	J - 3	Q32	M - 8	RV316	J - 7		
E305	D - 5	Q33	L - 5	RV318	E - 4		
E306	F - 3	Q35	L - 6	RV319	F - 4		
E307	J - 3	Q37	L - 6	RV320	K - 6		
E310	H - 9	Q38	L - 7	RV501	B - 5		
E503	A - 5	Q39	L - 7	RV502	B - 4		
E509	B - 9	Q40	L - 7	RV503	D - 6		
E602	A - 3	Q41	P - 3	RV504	D - 6		
E711	J - 1	Q42	P - 3	RV505	B - 8		
E812	P - 2	Q43	P - 3	RV506	B - 8		
		Q44	P - 3	RV602	M - 2		
FL601	B - 1	Q45	P - 3	RV603	M - 1		
		Q46	Q - 4	RV607	D - 3		
IC1	Q - 7	Q47	L - 4	RV701	L - 2		
IC2	Q - 6	Q48	M - 4	RV703	L - 3		
IC3	Q - 8	Q49	M - 3	RV706	E - 1		
IC4	N - 8	Q50	M - 4				
IC5	L - 8	Q51	M - 4	S1	K - 1		
IC301	E - 7	Q52	N - 4	S301	D - 1		
IC302	F - 4	Q53	M - 7	S302	D - 1		
IC303	G - 5	Q54	R - 8	S501	B - 1		
IC304	F - 3	Q55	R - 6	S502	B - 1		
IC305	F - 8	Q56	N - 7	S503	D - 8		
IC306	F - 7	Q101	P - 6				
IC307	H - 7	Q102	P - 8	T301	J - 3		
IC308	J - 7	Q301	E - 6				
IC309	H - 5	Q302	F - 5	TH1	R - 7		
IC310	H - 3	Q303	F - 5	TH2	R - 3		
IC311	K - 4	Q304	G - 5	TH301	F - 4		
IC312	K - 4	Q305	G - 4	TH302	J - 5		
IC313	J - 6	Q306	G - 6	TH303	F - 4		
IC314	J - 7	Q307	G - 6	TH304	J - 6		
IC315	F - 7	Q308	G - 7				
IC316	J - 8	Q309	G - 7	TP1	N - 7		
IC317	G - 8	Q310	H - 6	TP2	Q - 5		
IC318	G - 6	Q311	H - 7	TP3	P - 5		
IC319	G - 4	Q312	J - 7	TP4	N - 5		
IC321	D - 5	Q313	J - 5	TP5	M - 6		
IC501	C - 5	Q314	H - 3	TP6	M - 6		
IC502	B - 3	Q315	H - 3	TP7	M - 8		
IC503	C - 3	Q317	K - 6	TP9	L - 7		
IC504	C - 7	Q318	K - 6	TP10	M - 7		
IC505	C - 7	Q319	K - 7	TP11	N - 3		
IC506	A - 4	Q320	K - 6	TP12	Q - 3		
IC507	B - 4	Q321	E - 5	TP13	L - 4		
IC605	N - 2	Q322	E - 4	TP14	M - 4		
IC607	N - 1	Q501	B - 7	TP15	Q - 6		
IC609	N - 2	Q502	B - 5	TP16	N - 7		
IC610	N - 1	Q503	C - 5	TP17	S - 6		
IC613	B - 2	Q504	C - 4	TP301	F - 6		
IC614	C - 1	Q505	C - 4	TP302	E - 5		
IC701	G - 1	Q506	C - 4	TP303	F - 5		
IC702	G - 1	Q507	D - 4	TP304	F - 7		
IC703	H - 1	Q508	B - 6	TP305	G - 7		
IC704	L - 1	Q510	D - 8	TP306	H - 7		
IC706	F - 1	Q511	D - 8	TP307	J - 3		
IC707	H - 2	Q512	C - 8	TP308	F - 3		
IC708	H - 2	Q513	B - 8	TP309	J - 4		
IC709	L - 2	Q514	B - 8	TP310	J - 6		
IC711	E - 1	Q515	B - 6	TP501	B - 7		
IC713	J - 1	Q601	M - 2	TP502	A - 5		
IC801	P - 2	Q602	M - 1	TP503	B - 4		
IC802	P - 1	Q605	A - 2	TP504	A - 3		
IC803	Q - 2	Q607	D - 2	TP505	C - 2		
IC804	Q - 1	Q609	F - 8	TP506	C - 3		
IC805	R - 2	Q610	F - 8	TP507	C - 3		
		Q701	M - 1	TP508	D - 7		
LV1	Q - 7	Q703	M - 2	TP509	C - 6		
LV501	C - 5			TP510	D - 4		
LV502	D - 7			TP603	P - 2		

EN-34 – SOLDERING SIDE –

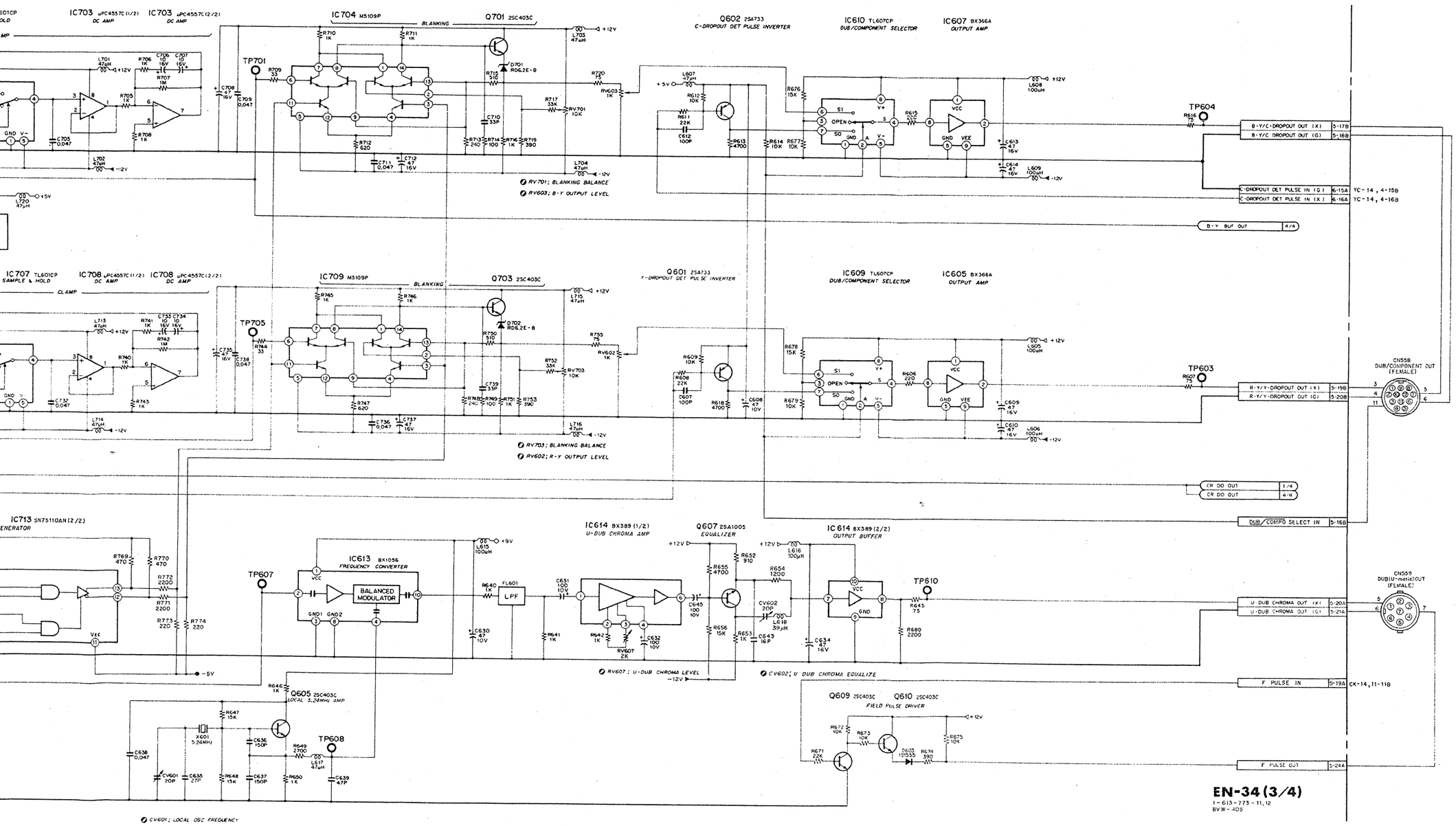
1 - 613 - 773 - 11, 12

8VW - 405

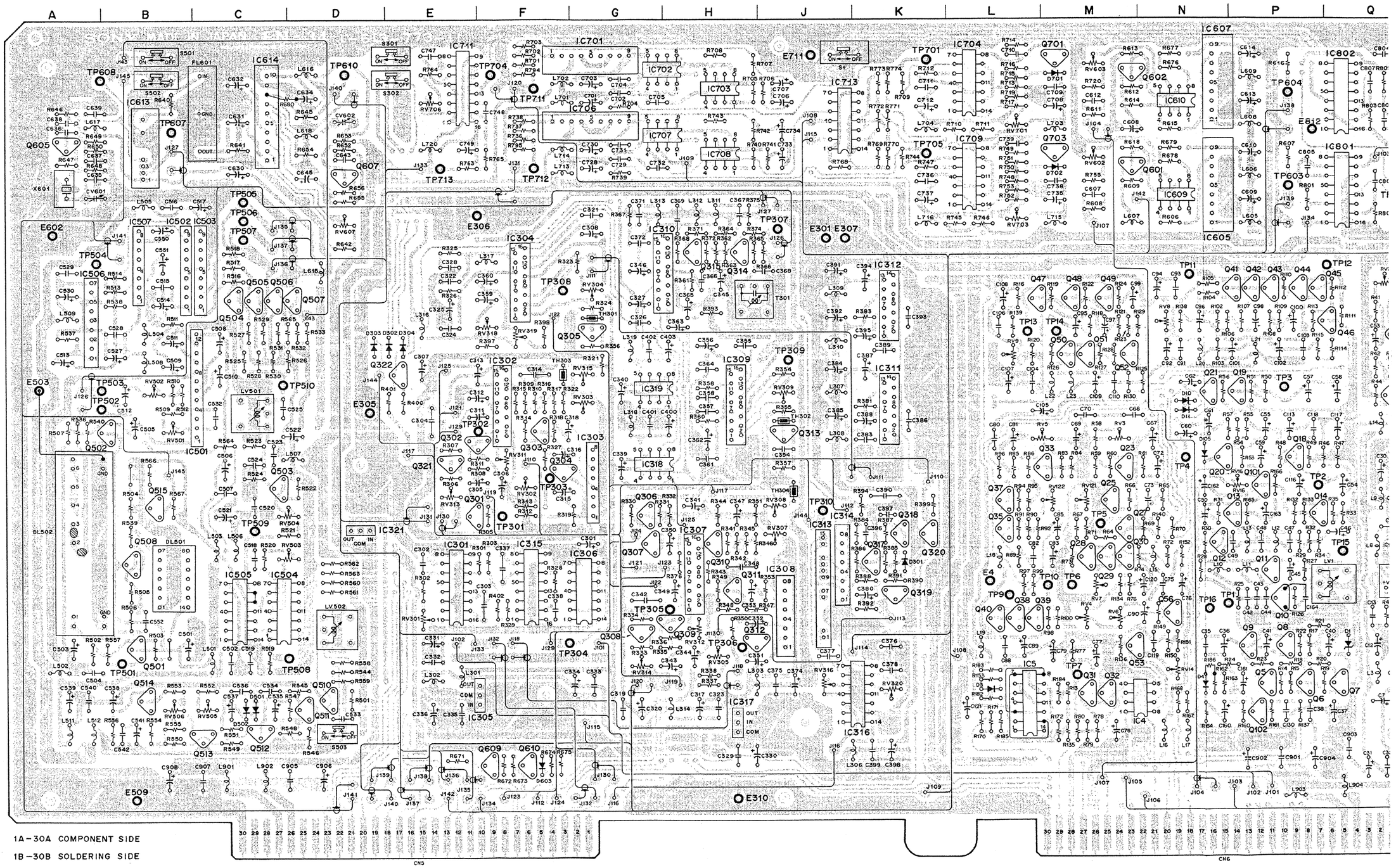
EN-34 (3/4) (VIDEO ENCODER)

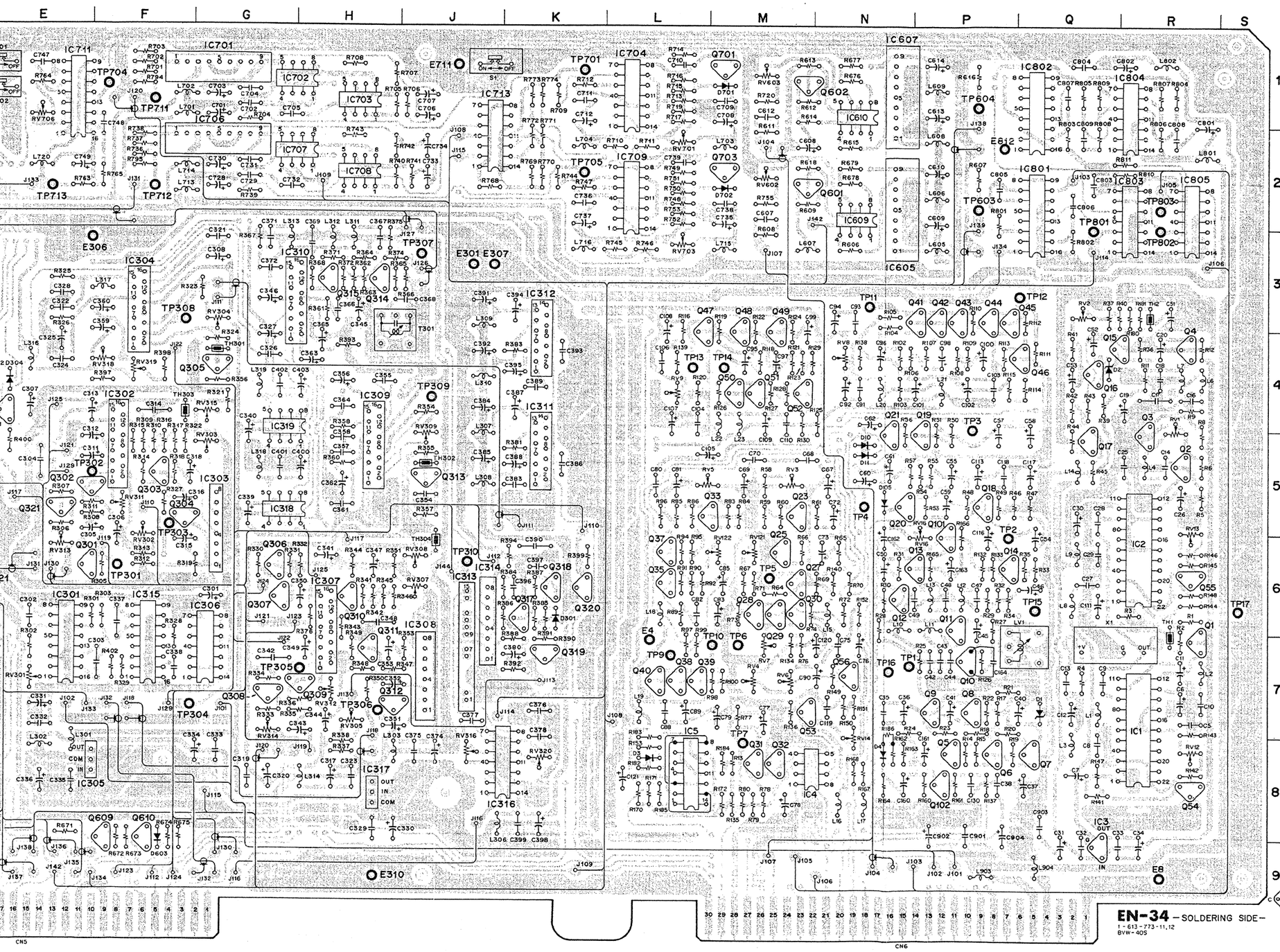


EN-34 (3/4)


IC703 μPC4557C(1/2) DC AMP
IC703 μPC4557C(2/2) DC AMP
IC704 M5109P
BLANKING
Q701 2SC403C
TP701
IC710 TL607CP DUB/COMPONENT SELECTOR
IC607 BX366A OUTPUT AMP
Q602 2SA733 C-DROPOUT DET PULSE INVERTER
TP604
B-Y/C-DROPOUT OUT (X)
B-Y/C DROPOUT OUT (G)
C-DROPOUT DET PULSE IN (G)
C-DROPOUT DET PULSE IN (X)
B-Y BUF OUT
RV701; BLANKING BALANCE
RV603; B-Y OUTPUT LEVEL
IC707 TL601CP SAMPLE & HOLD
IC708 μPC4557C(1/2) DC AMP
IC708 μPC4557C(2/2) DC AMP
CLAMP
IC709 M5109P
BLANKING
Q703 2SC403C
TP705
IC609 TL607CP DUB/COMPONENT SELECTOR
IC605 BX366A OUTPUT AMP
Q601 2SA733 Y-DROPOUT DET PULSE INVERTER
TP603
R-Y/Y-DROPOUT OUT (X)
R-Y/Y-DROPOUT OUT (G)
CN558 DUB/COMPONENT OUT (FEMALE)
EN DO OUT
CR DO OUT
DUB/COMPO SELECT IN
RV703; BLANKING BALANCE
RV602; R-Y OUTPUT LEVEL
IC713 SN75110AN(2/2) GENERATOR
IC613 BX1056 FREQUENCY CONVERTER
BALANCED MODULATOR
LPF
TP607
IC614 BX389(1/2) U-DUB CHROMA AMP
Q607 2SA1005 EQUALIZER
IC614 BX389(2/2) OUTPUT BUFFER
TP610
U-DUB CHROMA OUT (X)
U-DUB CHROMA OUT (G)
F PULSE IN
F PULSE OUT
RV607; U-DUB CHROMA LEVEL
CV602; U DUB CHROMA EQUALIZE
Q605 2SC403C LOCAL 5.24MHz AMP
TP608
Q609 2SC403C Q610 2SC403C FIELD PULSE DRIVER
CV601; LOCAL OSC FREQUENCY
EN-34 (3/4)
1-613-773-11,12
BVW-40S

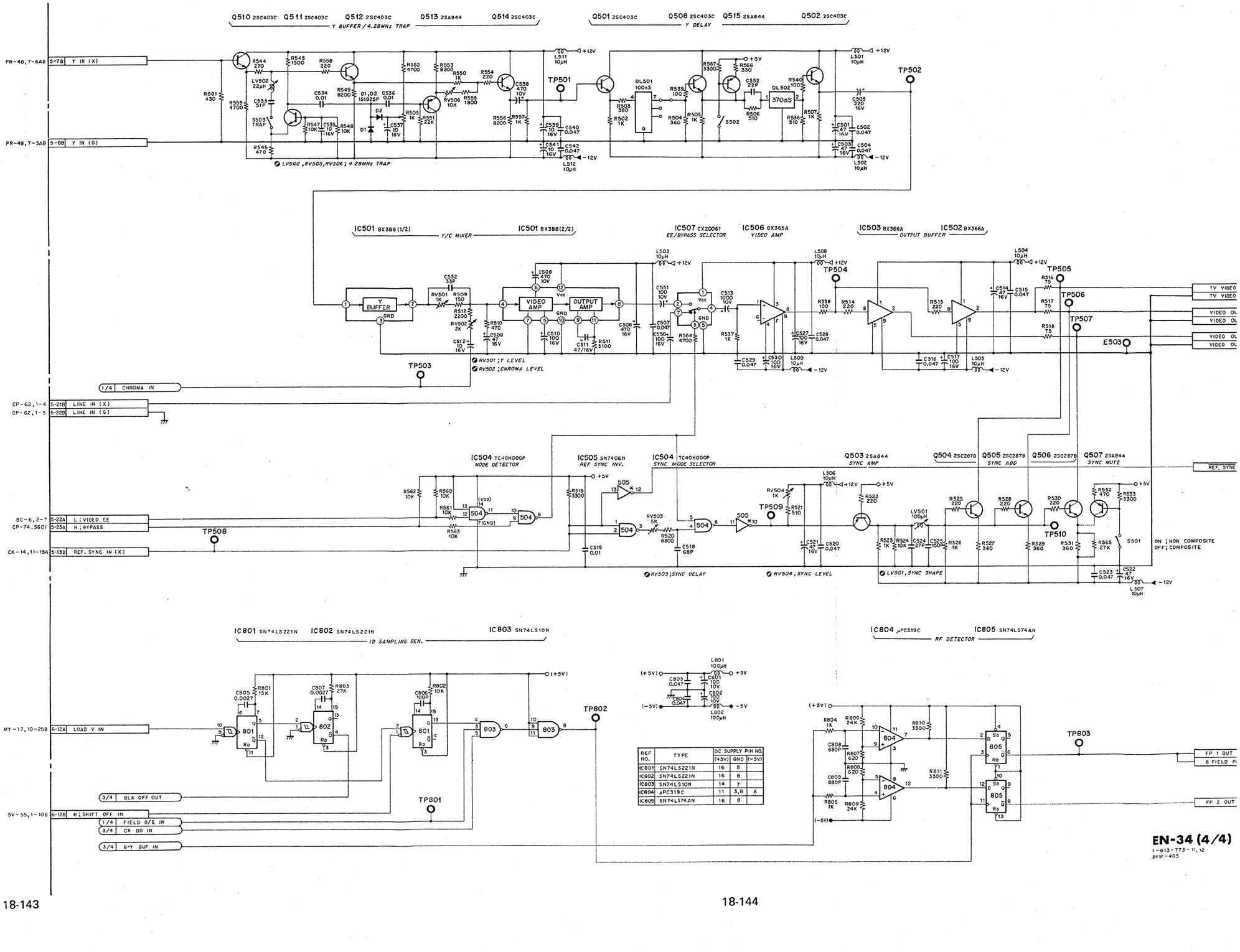
EN-34 (VIDEO ENCODER)

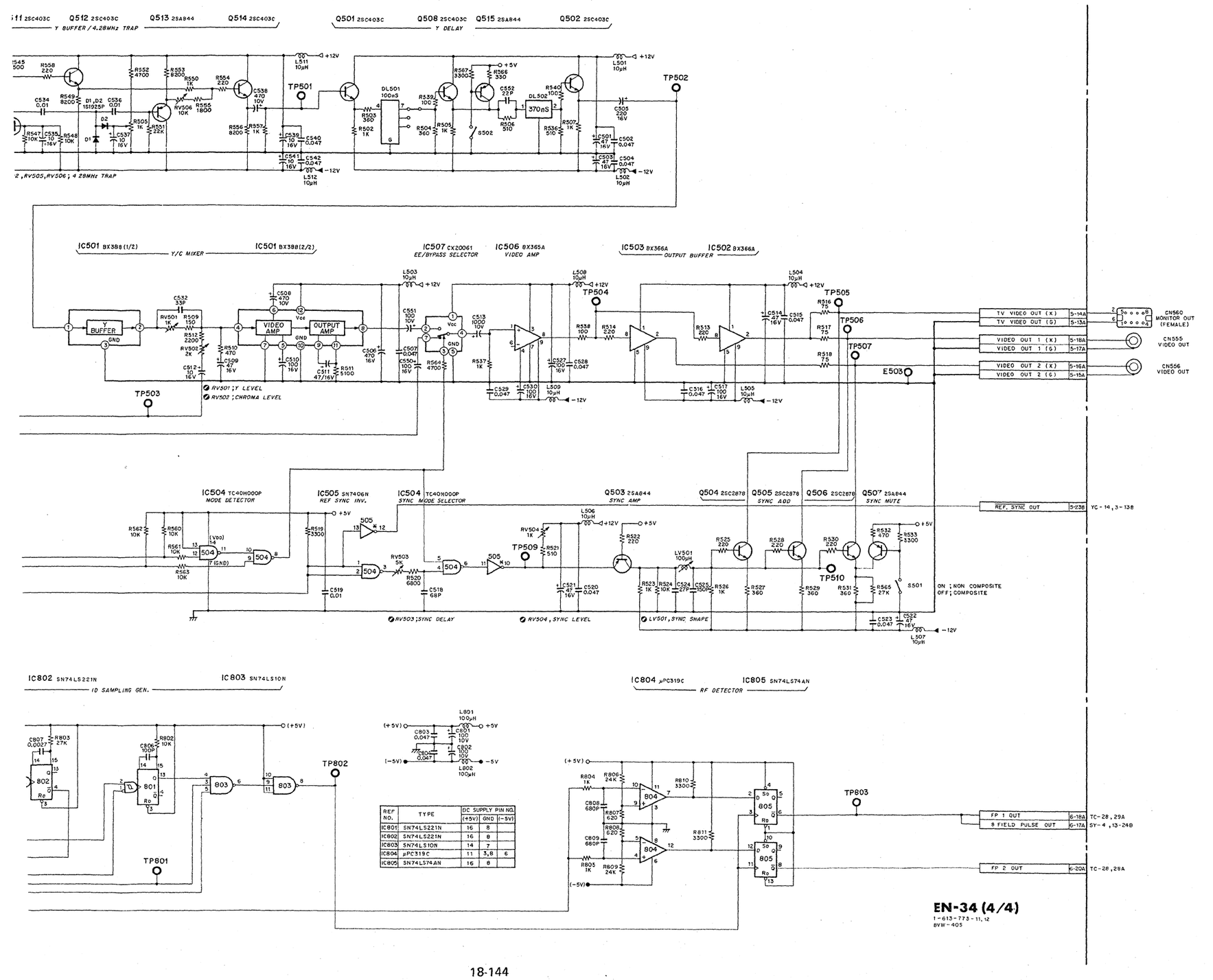




CN5	E - 9	Q1	R - 7	RV1	R - 4	TP604	P - 1
CN6	N - 9	Q2	R - 5	RV2	Q - 3	TP607	B - 2
		Q3	R - 4	RV3	M - 5	TP608	A - 1
CV601	B - 2	Q4	R - 4	RV4	M - 7	TP610	D - 1
CV602	D - 1	Q5	P - 8	RV5	L - 5	TP701	K - 1
		Q6	P - 8	RV6	M - 7	TP704	F - 1
D1	Q - 7	Q7	Q - 8	RV7	M - 7	TP705	K - 2
D2	Q - 4	Q8	P - 7	RV8	N - 4	TP711	F - 1
D3	L - 8	Q9	P - 7	RV9	L - 4	TP712	F - 2
D4	N - 8	Q10	P - 7	RV12	R - 8	TP713	E - 2
D10	N - 5	Q11	P - 7	RV13	R - 6	TP801	Q - 2
D11	N - 5	Q12	N - 6	RV14	N - 7	TP802	R - 3
D105	N - 5	Q13	N - 6	RV16	P - 5	TP803	R - 2
D301	K - 6	Q14	P - 6	RV121	M - 6		
D302	E - 4	Q15	R - 4	RV122	M - 6	X1	Q - 7
D303	D - 4	Q16	Q - 4	RV301	E - 7	X601	A - 2
D304	E - 4	Q17	Q - 5	RV302	F - 6		
D501	C - 8	Q18	P - 5	RV303	G - 5		
D502	C - 8	Q19	P - 4	RV304	G - 3		
D603	F - 8	Q20	N - 5	RV305	H - 8		
D701	M - 1	Q21	N - 5	RV307	J - 6		
D702	M - 2	Q23	M - 5	RV308	J - 6		
		Q25	M - 6	RV309	J - 5		
DL501	B - 7	Q27	M - 6	RV311	F - 5		
DL502	A - 7	Q28	M - 6	RV312	H - 7		
		Q29	M - 6	RV313	E - 6		
E4	L - 7	Q30	M - 6	RV314	G - 7		
E8	R - 9	Q31	M - 8	RV315	G - 4		
E301	J - 3	Q32	M - 8	RV316	J - 7		
E305	D - 5	Q33	L - 5	RV318	E - 4		
E306	F - 3	Q35	L - 6	RV319	F - 4		
E307	J - 3	Q37	L - 6	RV320	K - 8		
E310	H - 9	Q38	L - 7	RV501	B - 5		
E503	A - 5	Q39	L - 7	RV502	B - 4		
E509	B - 9	Q40	L - 7	RV503	D - 6		
E602	A - 3	Q41	P - 3	RV501	D - 6		
E711	J - 1	Q42	P - 3	RV505	B - 8		
E812	P - 2	Q43	P - 3	RV506	B - 8		
		Q44	P - 3	RV602	M - 2		
FL601	B - 1	Q45	P - 3	RV603	M - 1		
		Q46	Q - 4	RV607	D - 3		
IC1	Q - 7	Q47	L - 4	RV701	L - 2		
IC2	Q - 6	Q48	M - 4	RV703	L - 3		
IC3	Q - 8	Q49	M - 3	RV706	E - 1		
IC4	N - 8	Q50	M - 4				
IC5	L - 8	Q51	M - 4	S1	K - 1		
IC301	E - 7	Q52	N - 4	S301	D - 1		
IC302	F - 4	Q53	M - 7	S302	D - 1		
IC303	G - 5	Q54	R - 8	SS01	B - 1		
IC304	F - 3	Q55	R - 6	SS02	B - 1		
IC305	F - 8	Q56	N - 7	SS03	D - 8		
IC306	F - 7	Q101	P - 6				
IC307	H - 7	Q102	P - 8	T301	J - 3		
IC308	J - 7	Q301	E - 6				
IC309	H - 5	Q302	F - 5	TH1	R - 7		
IC310	H - 3	Q303	F - 5	TH2	R - 3		
IC311	K - 4	Q304	G - 5	TH301	F - 4		
IC312	K - 4	Q305	G - 4	TH302	J - 5		
IC313	J - 6	Q306	G - 6	TH303	F - 4		
IC314	J - 7	Q307	G - 6	TH304	J - 6		
IC315	F - 7	Q308	G - 7				
IC316	J - 8	Q309	G - 7	TP1	N - 7		
IC317	J - 8	Q310	H - 6	TP2	Q - 5		
IC318	G - 6	Q311	H - 7	TP3	P - 5		
IC319	G - 4	Q312	J - 7	TP4	N - 5		
IC321	D - 5	Q313	J - 5	TP5	M - 6		
IC501	C - 5	Q314	H - 3	TP6	M - 6		
IC502	B - 3	Q315	H - 3	TP7	M - 8		
IC503	C - 3	Q317	K - 6	TP9	L - 7		
IC504	C - 7	Q318	K - 6	TP10	M - 7		
IC505	C - 7	Q319	K - 7	TP11	N - 3		
IC506	A - 4	Q320	K - 6	TP12	Q - 3		
IC507	B - 4	Q321	E - 5	TP13	L - 4		
IC605	N - 2	Q322	E - 4	TP14	M - 4		
IC607	N - 1	Q501	B - 7	TP15	Q - 6		
IC609	N - 2	Q502	B - 5	TP16	N - 7		
IC610	N - 1	Q503	C - 5	TP17	S - 6		
IC613	B - 2	Q504	C - 4	TP301	F - 6		
IC614	C - 1	Q505	C - 4	TP302	E - 5		
IC701	G - 1	Q506	C - 4	TP303	F - 5		
IC702	G - 1	Q507	D - 4	TP304	F - 7		
IC703	H - 1	Q508	B - 6	TP305	G - 7		
IC704	L - 1	Q510	D - 8	TP306	H - 7		
IC706	F - 1	Q511	D - 8	TP307	J - 3		
IC707	H - 2	Q512	C - 8	TP308	F - 3		
IC708	H - 2	Q513	B - 8	TP309	J - 4		
IC709	L - 2	Q514	B - 8	TP310	J - 6		
IC711	E - 1	Q515	B - 6	TP501	B - 7		
IC713	J - 1	Q601	M - 2	TP502	A - 5		
IC801	P - 2	Q602	M - 1	TP503	B - 4		
IC802	P - 1	Q605	A - 2	TP504	A - 3		
IC803	Q - 2	Q607	D - 2	TP505	C - 2		
IC804	Q - 1	Q609	F - 8	TP506	C - 3		
IC805	R - 2	Q610	F - 8	TP507	C - 3		
		Q701	M - 1	TP508	D - 7		
LV1	Q - 7	Q703	M - 2	TP509	C - 6		
LV501	C - 5			TP510	D - 4		
LV502	D - 7			TP603	P - 2		

EN-34 (4/4) (VIDEO ENCODER)



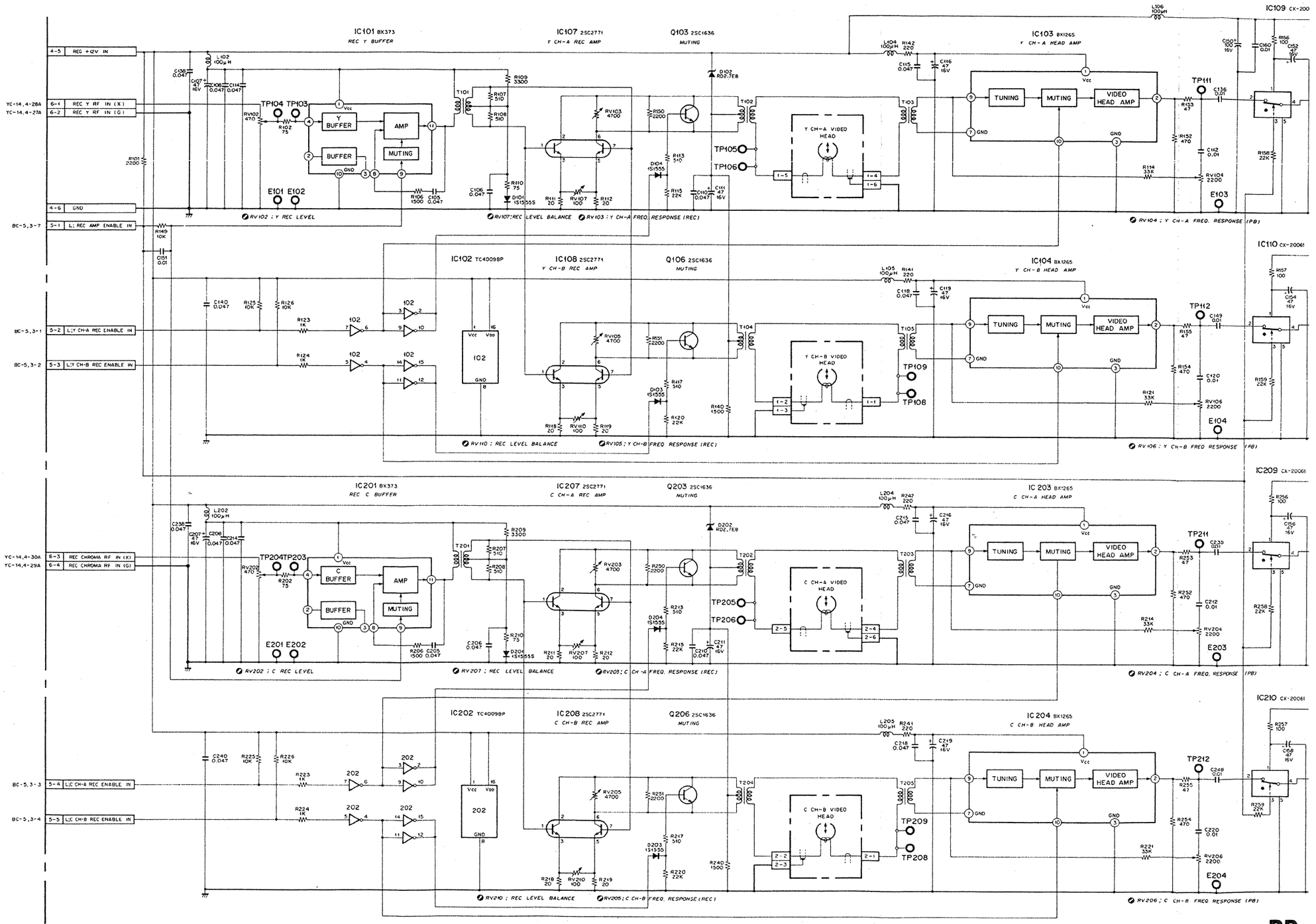


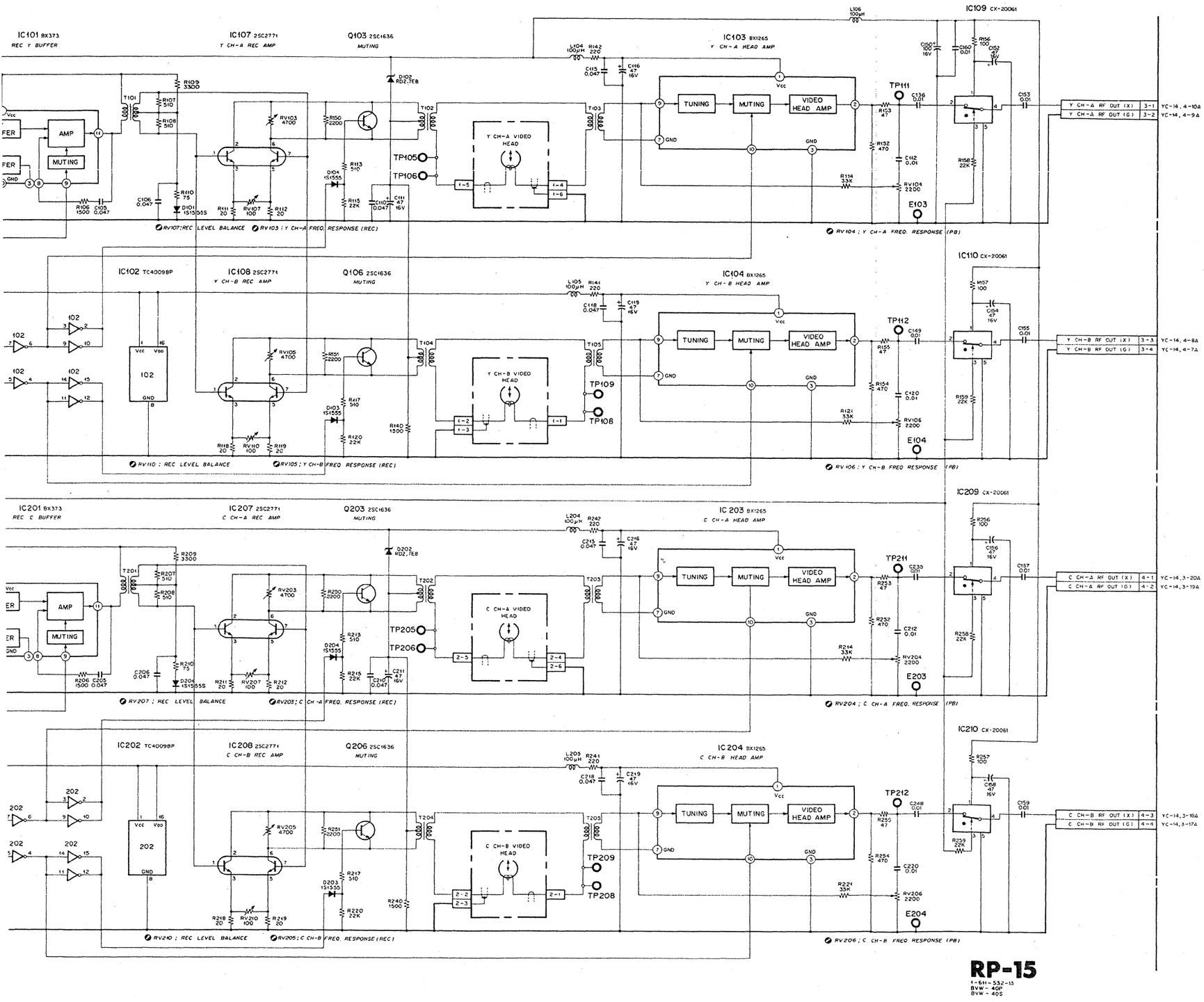
REF NO.	TYPE	DC SUPPLY PIN NO.		
		(+5V)	GND	(-5V)
IC801	SN74LS221N	16	8	
IC802	SN74LS221N	16	8	
IC803	SN74LS10N	14	7	
IC804	μPC319C	11	3,8	6
IC805	SN74LS74AN	16	8	

EN-34 (4/4)
1-613-773-11,12
8YW-405

RP-15 RP-15

RP-15 (Y/C REC PB AMPLIFIER)



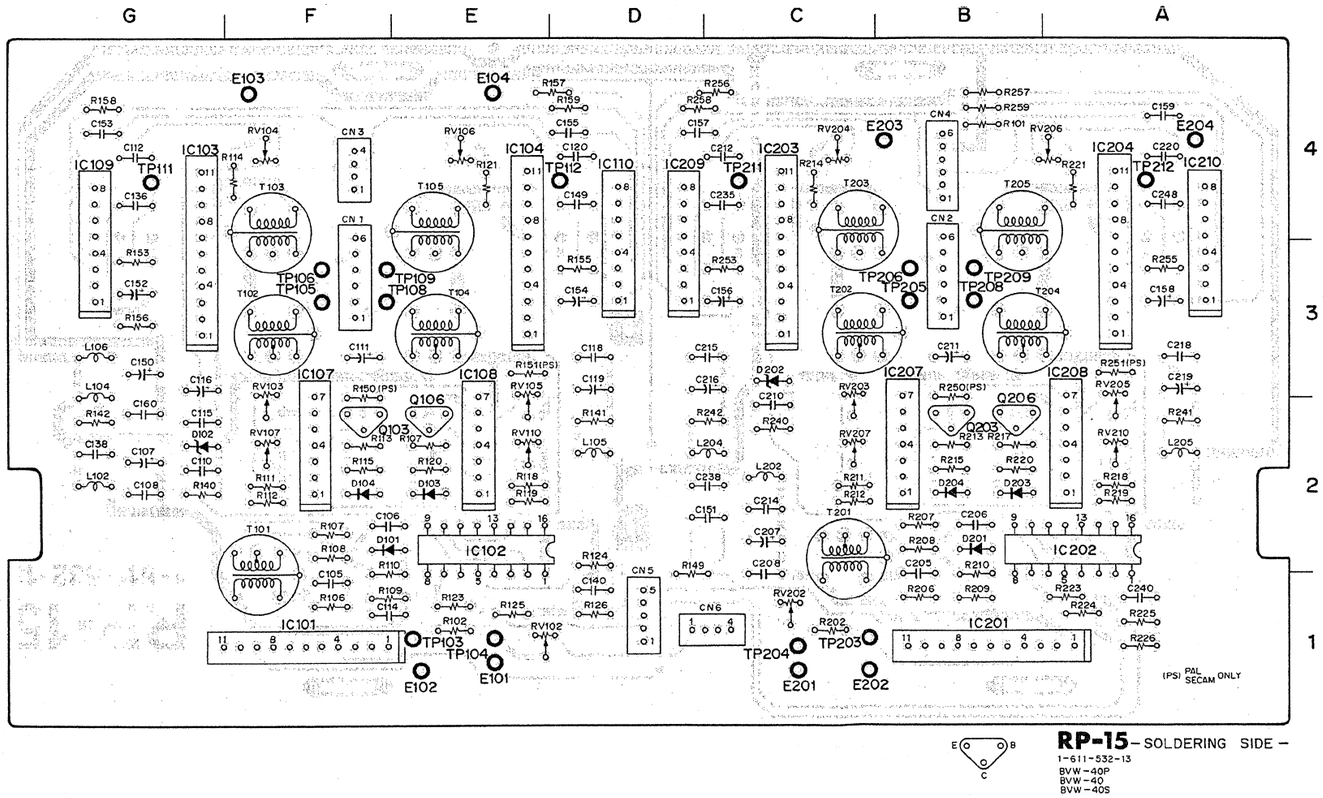


RP-15

1-611-532-13
BVW - 40P
BVW - 40S

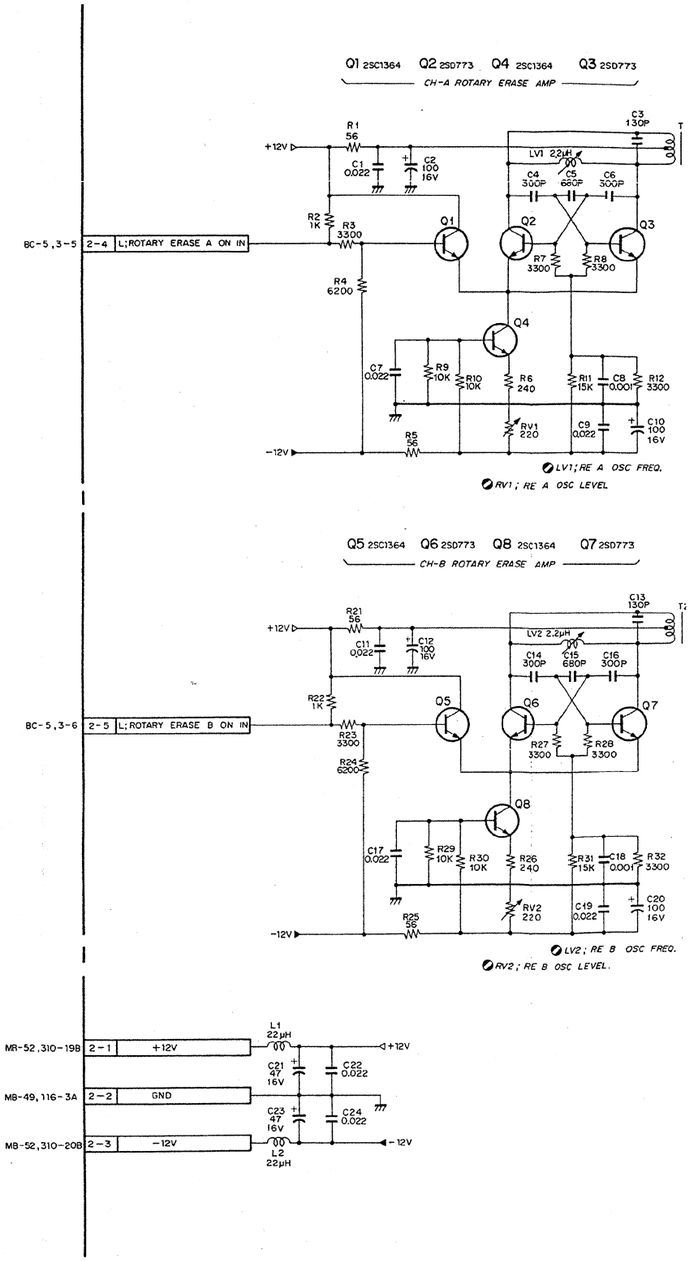
RP-15 (Y/C REC PB AMPLIFIER)

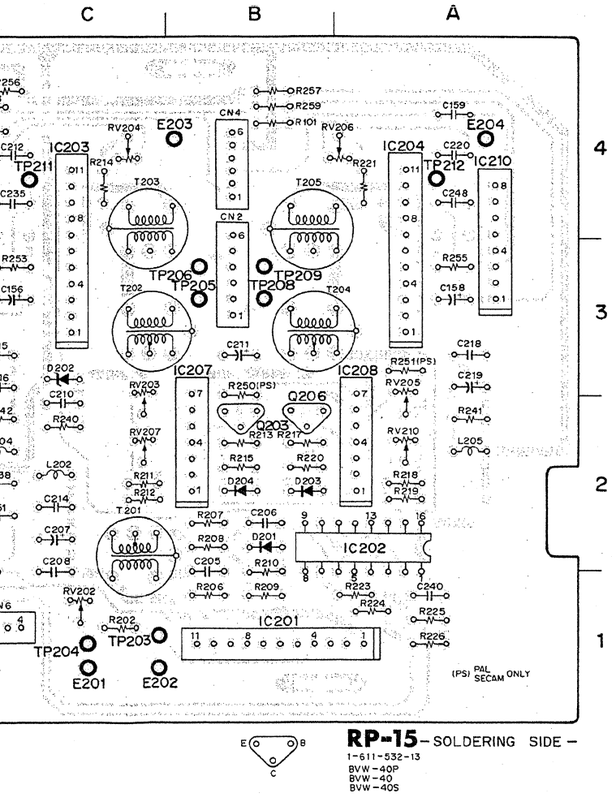
CN1	F - 3	RV102	E - 1
CN2	B - 3	RV103	F - 3
CN3	F - 4	RV104	F - 4
CN4	B - 4	RV105	E - 3
CN5	D - 1	RV106	E - 4
CN6	C - 1	RV107	F - 2
		RV110	E - 2
D101	F - 2	RV202	C - 1
D102	G - 2	RV203	C - 3
D103	E - 2	RV204	C - 4
D104	F - 2	RV205	A - 3
D201	B - 2	RV206	A - 4
D202	C - 3	RV207	C - 2
D203	B - 2	RV210	A - 2
D204	B - 2		
		T101	F - 1
E101	E - 1	T102	F - 3
E102	E - 1	T103	F - 4
E103	F - 1	T104	E - 3
E104	E - 4	T105	E - 4
E201	C - 1	T201	C - 2
E202	C - 1	T202	C - 3
E203	B - 4	T203	C - 4
E204	A - 4	T204	B - 3
		T205	B - 4
IC101	F - 1		
IC102	E - 2	TP103	E - 1
IC103	G - 3	TP104	E - 1
IC104	E - 3	TP105	F - 3
IC107	F - 2	TP106	F - 3
IC108	E - 2	TP108	F - 3
IC109	G - 4	TP109	F - 3
IC110	D - 4	TP111	G - 4
IC201	B - 1	TP112	D - 4
IC202	A - 2	TP203	C - 1
IC203	C - 3	TP204	C - 1
IC204	A - 3	TP205	B - 3
IC207	B - 2	TP206	B - 3
IC208	A - 2	TP208	B - 3
IC209	D - 4	TP209	B - 3
IC210	A - 4	TP211	C - 4
		TP212	A - 4
Q103	F - 2		
Q106	E - 2		
Q203	B - 2		
Q206	B - 2		



RP-15 – SOLDERING SIDE –
1-611-532-13
BVW-40P
BVW-40
BVW-40S

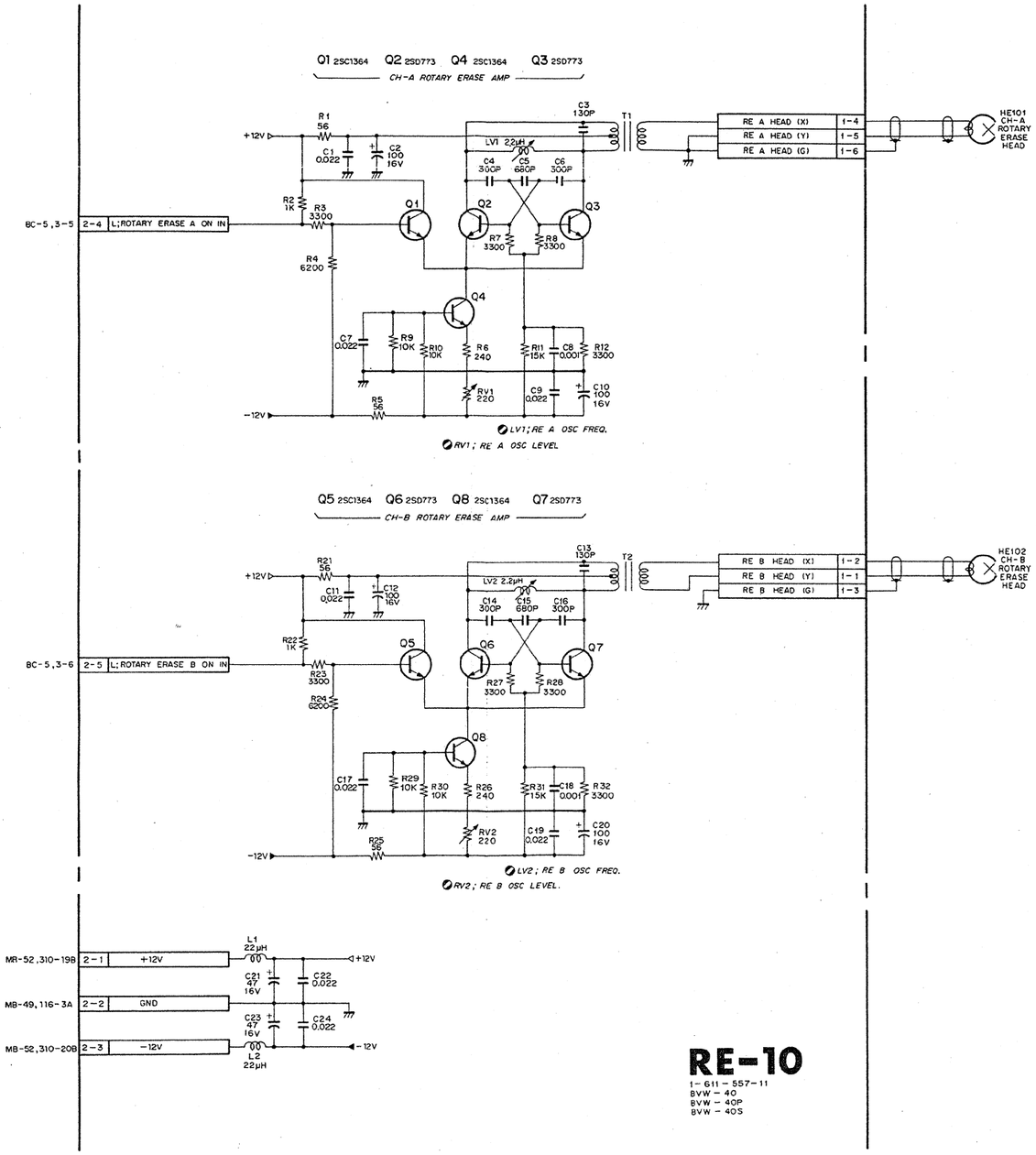
RE-10 (ROTARY ERASE AMPLIFIER)





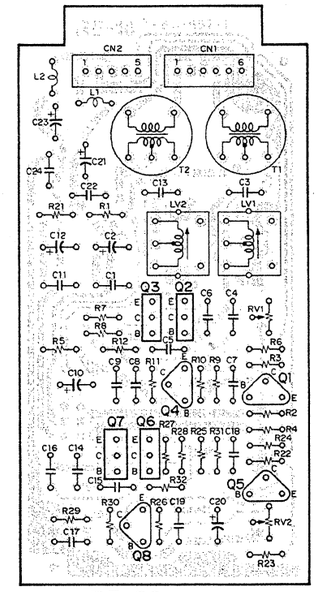
RP-15 – SOLDERING SIDE –

1-611-532-13
BVW-40P
BVW-40
BVW-40S



RE-10

1-611-557-11
BVW-40
BVW-40P
BVW-40S



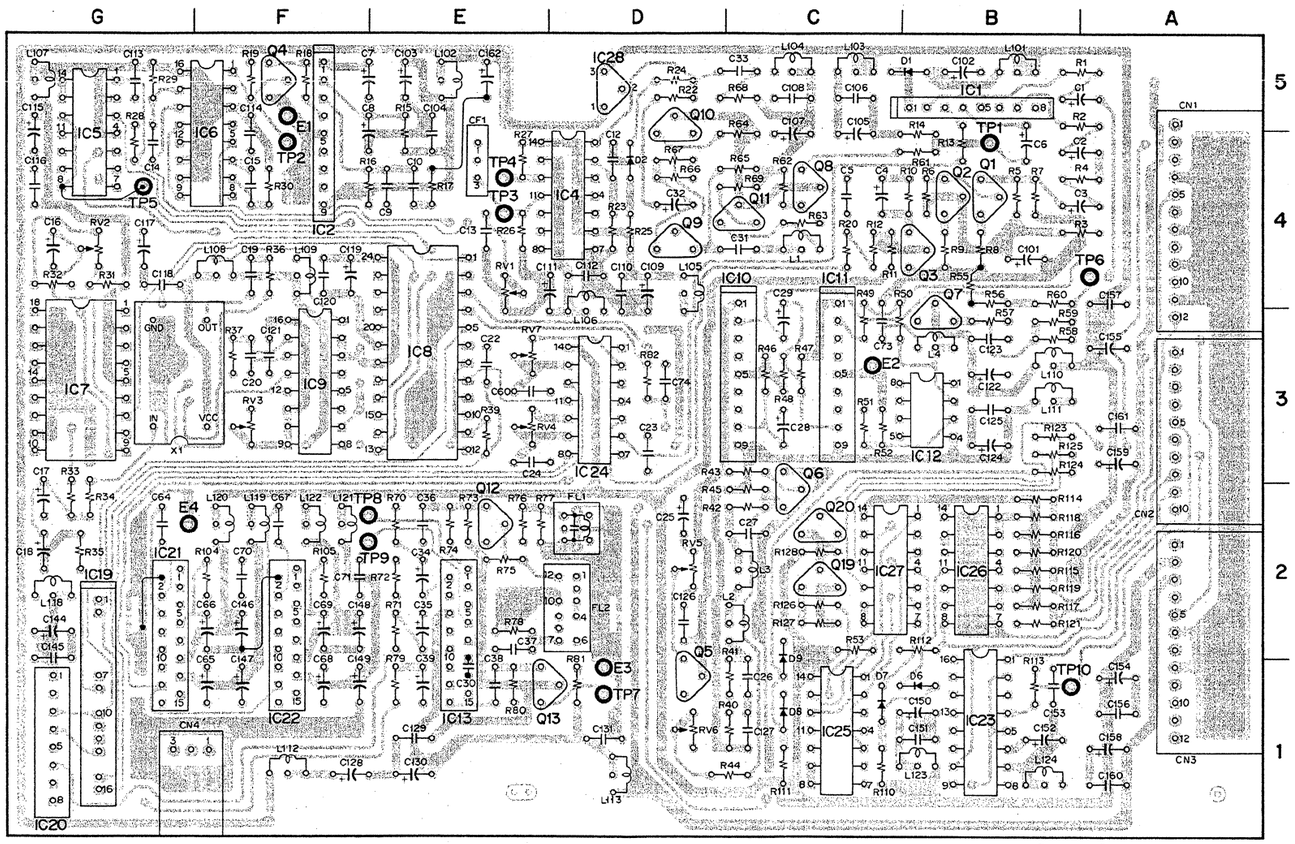
RE-10 – SOLDERING SIDE –

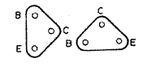
1-611-557-11
BVW-40
BVW-40P
BVW-40S

SD-9, CP-62 SD-9, CP-62

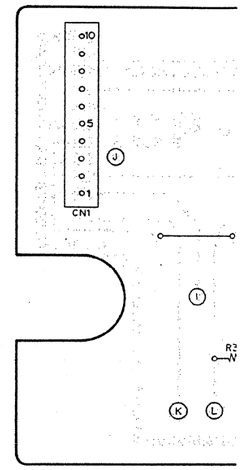
SD-9 (REFERENCE SIGNAL GENERATOR)
CP-62

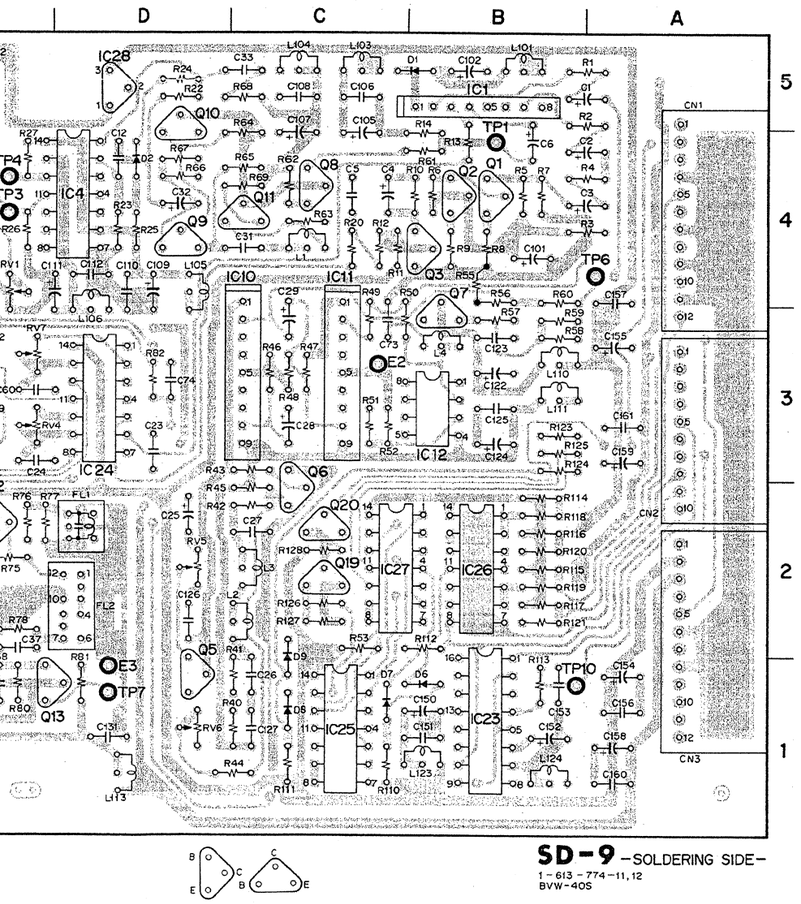
CF1	E - 4	Q11	C - 4
		Q12	E - 2
CN1	A - 4	Q13	E - 1
CN2	A - 3	Q19	C - 2
CN3	A - 2	Q20	C - 2
CN4	G - 1		
		RV1	E - 4
D1	B - 5	RV2	G - 4
D2	D - 4	RV3	F - 3
D6	B - 1	RV4	E - 3
D7	C - 1	RV5	D - 2
D8	C - 1	RV6	D - 1
D9	C - 2	RV7	E - 3
E1	F - 5	TP1	B - 4
E2	C - 3	TP2	F - 4
E3	D - 1	TP3	E - 4
E4	G - 2	TP4	E - 4
		TP5	G - 4
FL1	D - 2	TP6	A - 4
FL2	D - 2	TP7	D - 1
		TP8	F - 2
IC1	B - 5	TP9	F - 2
IC2	F - 4	TP10	A - 2
IC4	D - 4		
IC5	G - 5	X1	G - 3
IC6	F - 4		
IC7	G - 3		
IC8	E - 3		
IC9	F - 3		
IC10	C - 3		
IC11	C - 3		
IC12	B - 3		
IC13	E - 2		
IC19	G - 1		
IC20	G - 1		
IC21	G - 1		
IC22	F - 2		
IC23	B - 1		
IC24	D - 3		
IC25	C - 1		
IC26	B - 2		
IC27	B - 2		
IC28	D - 5		
Q1	B - 4		
Q2	B - 4		
Q3	B - 4		
Q4	F - 5		
Q5	D - 1		
Q6	C - 3		
Q7	B - 3		
Q8	C - 4		
Q9	D - 4		
Q10	D - 5		





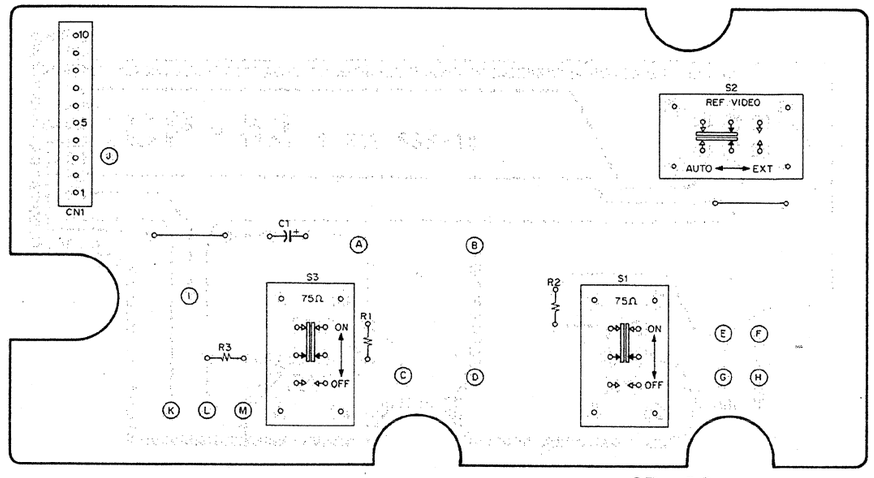
SD-9 –SOLDERING SIDE–
1-613-774-11,12
BVW-40S





SD-9 -SOLDERING SIDE-

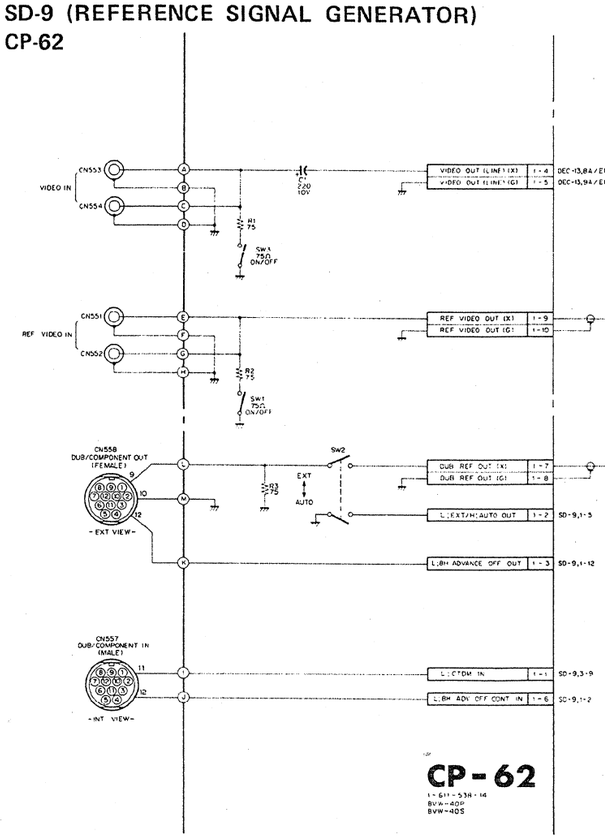
1-613-774-11,12
BVW-40S

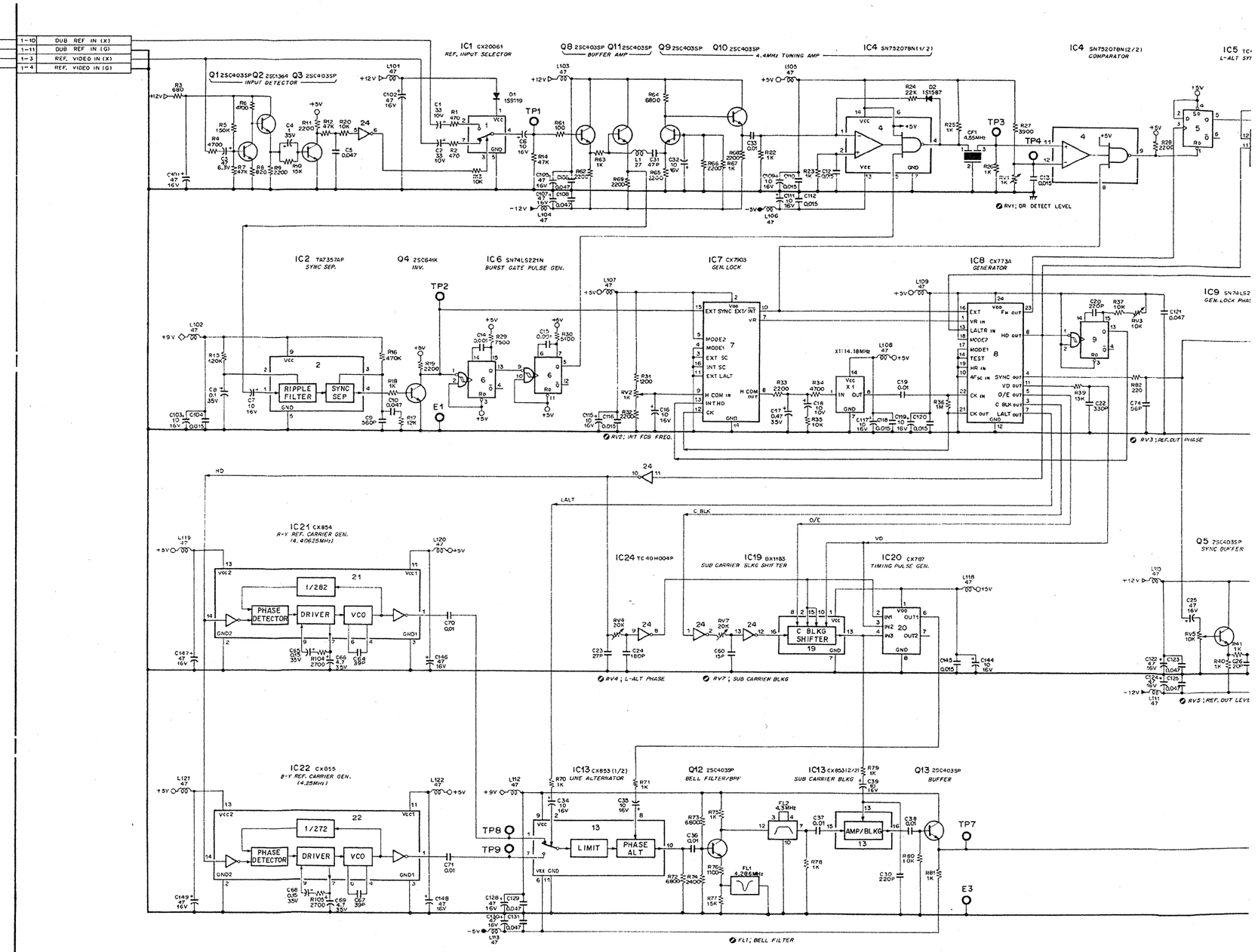


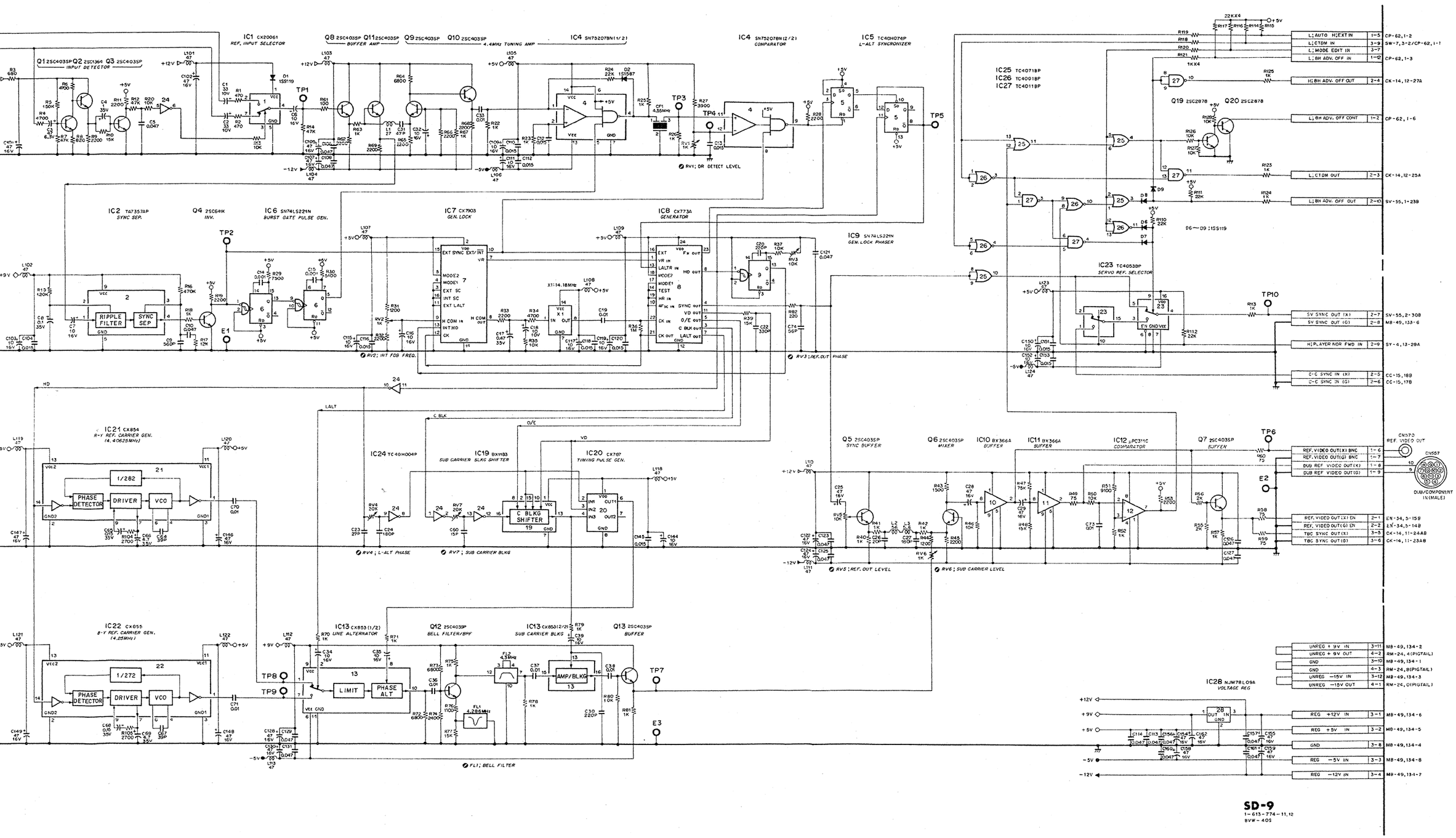
CP-62 -SOLDERING SIDE-

1-611-538-14
BVW-40
BVW-40P
BVW-40S

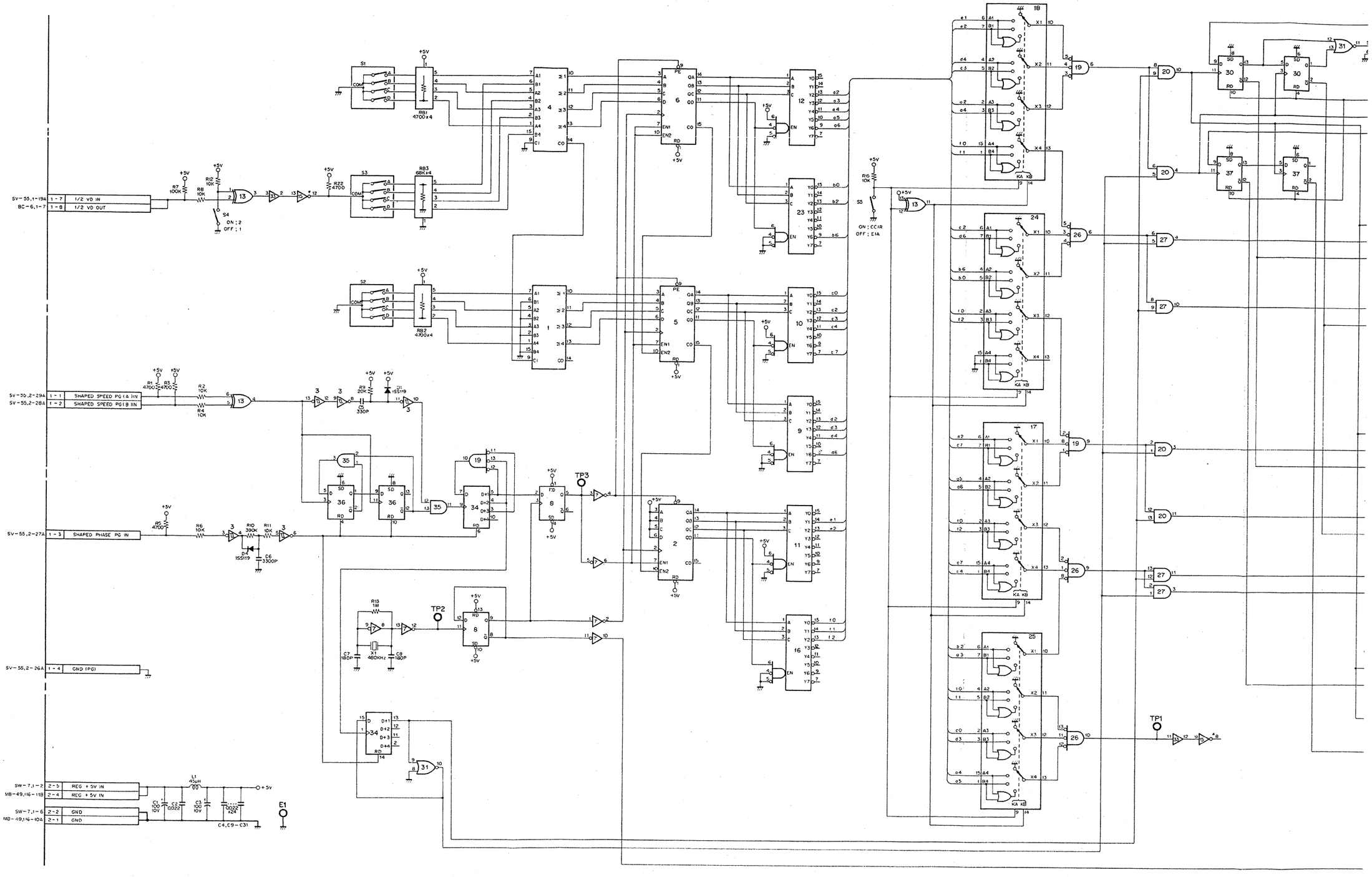
SD-9 (REFERENCE SIGNAL GENERATOR)
CP-62

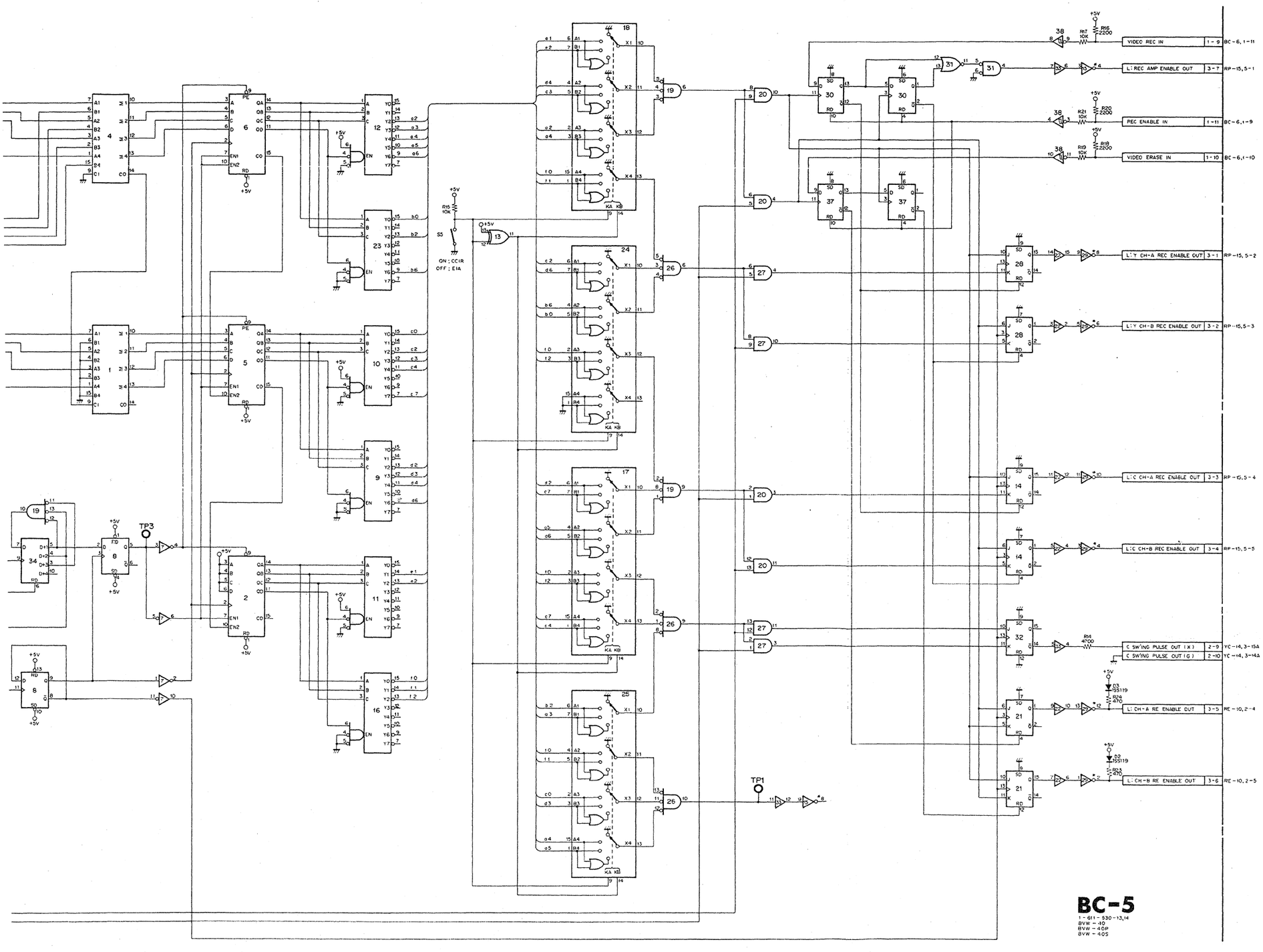





IC1 CX20061 REF. INPUT SELECTOR
Q1 2SC4035SP Q2 2SC1364 Q3 2SC4035SP INPUT DETECTOR
Q8 2SC4035SP Q11 2SC4035SP BUFFER AMP
Q9 2SC4035SP Q10 2SC4035SP 4.4MHz TUNING AMP
IC4 SN75207BN(1/2)
IC4 SN75207BN(2/2) COMPARATOR
IC5 TC40H074P L-ALT SYNCRONIZER
IC25 TC40718P
IC26 TC40018P
IC27 TC40118P
IC2 TA7357AP SYNC SEP.
Q4 2SC641K INV.
IC6 SN74LS221N BURST GATE PULSE GEN.
IC7 CX7903 GEN. LOCK
IC8 CX773A GENERATOR
IC9 SN74LS221N GEN. LOCK PHASER
IC23 TC40539P SERVO REF. SELECTOR
Q19 2SC2878
Q20 2SC2878
D1 1SS119
D6—D9 : 1SS119
RV1; DR DETECT LEVEL
RV2; INT FOB FREQ.
RV3; REF.OUT PHASE
L;AUTO H;EXT IN
L;CTDM IN
L;MODE EDIT IN
L;8H ADV. OFF IN
H;8H ADV. OFF OUT
L;8H ADV. OFF CONT
L;CTDM OUT
L;8H ADV. OFF OUT
SV SYNC OUT (X)
SV SYNC OUT (G)
H;PLAYER NOR FWD IN
C-C SYNC IN (X)
C-C SYNC IN (G)
IC21 CX854 R-Y REF. CARRIER GEN. (4.40625MHz)
IC24 TC40H004P
IC19 BX1103 SUB CARRIER BLKG SHIFTER
IC20 CX707 TIMING PULSE GEN.
Q5 2SC4035SP SYNC BUFFER
Q6 2SC4035SP MIXER
IC10 BX366A BUFFER
IC11 BX366A BUFFER
IC12 μPC311C COMPARATOR
Q7 2SC4035SP BUFFER
REF. VIDEO OUT(X) BNC
REF. VIDEO OUT(G) BNC
DUB REF VIDEO OUT(X)
DUB REF VIDEO OUT(G)
DUB/COMPONENT IN(MALE)
REF. VIDEO OUT(X) EN
REF. VIDEO OUT(G) EN
TBC SYNC OUT(X)
TBC SYNC OUT(G)
RV4; L-ALT PHASE
RV5; REF. OUT LEVEL
RV6; SUB CARRIER LEVEL
RV7; SUB CARRIER BLKG
IC22 CX855 B-Y REF. CARRIER GEN. (4.25MHz)
IC13 CX853(1/2) LINE ALTERNATOR
Q12 2SC4035SP BELL FILTER/BPF
IC13 CX853(2/2) SUB CARRIER BLKG
Q13 2SC4035SP BUFFER
FL1 4.286MHz
RV8; BELL FILTER
IC28 NJM78L09A VOLTAGE REG
UNREG +9V IN
UNREG +9V OUT
GND
GND
UNREG −15V IN
UNREG −15V OUT
REG +12V IN
REG +5V IN
GND
REG −5V IN
REG −12V IN
SD-9
1-613-774-11,12
BVW-405

BC-5 (VIDEO BLANKING SWITCHER)



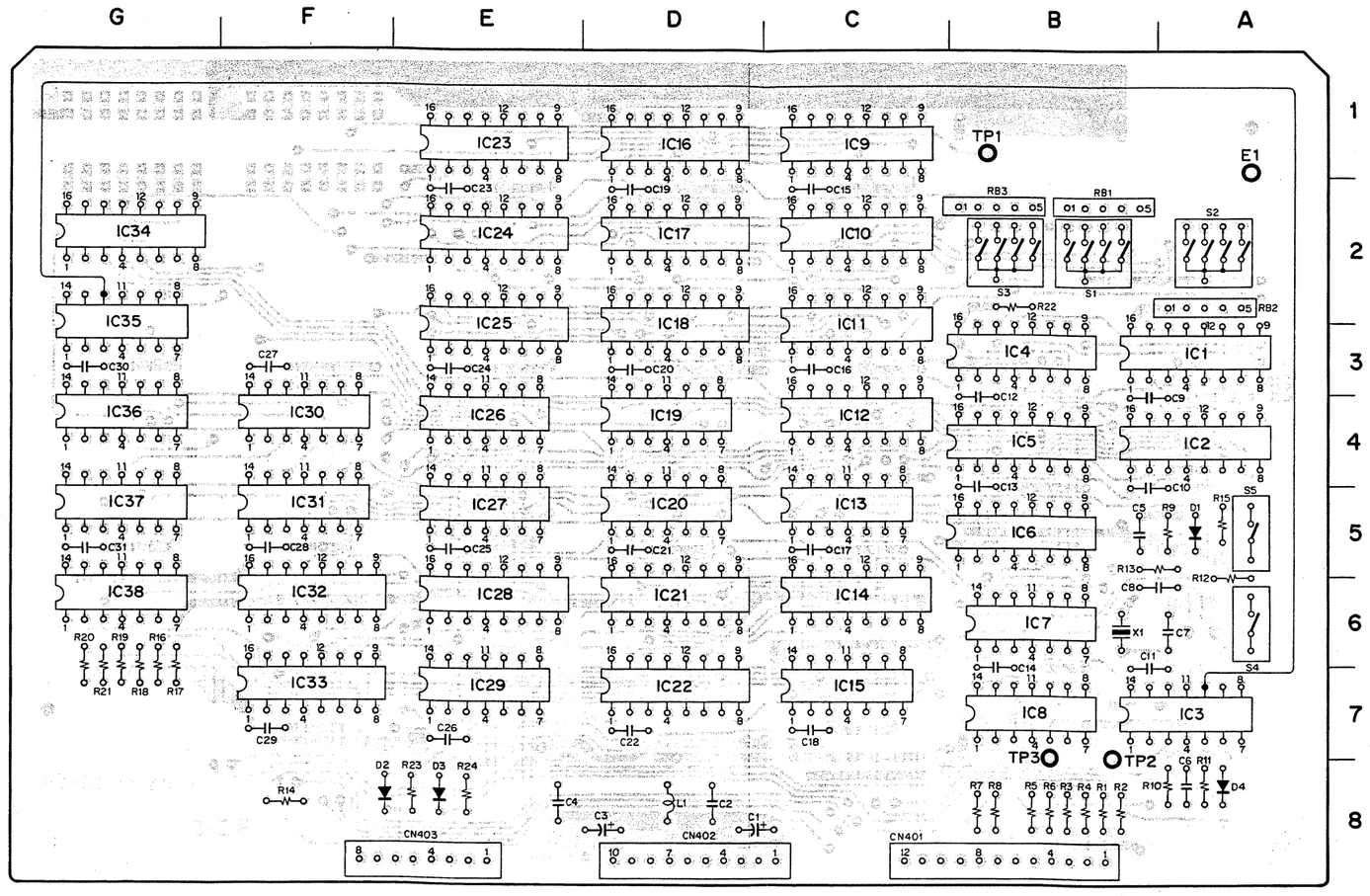


BC-5

1-611-530-13,14
BVW-40
BVW-40P
BVW-40S

BC-5 (VIDEO BLANKING SWITCHER)

CN401	B - 8	RB1	B - 2
CN402	D - 8	RB2	A - 2
CN403	E - 8	RB3	B - 2
D1	A - 5	S1	B - 2
D2	F - 8	S2	A - 2
D3	E - 8	S3	B - 2
D4	A - 8	S4	A - 6
		S5	A - 5
E1	A - 1	TP1	B - 1
		TB2	B - 7
IC1	A - 3	TB3	B - 7
IC2	A - 4		
IC3	A - 7	X1	B - 6
IC4	B - 3		
IC5	B - 4		
IC6	B - 5		
IC7	B - 6		
IC8	B - 7		
IC9	C - 1		
IC10	C - 2		
IC11	C - 3		
IC12	C - 4		
IC13	C - 5		
IC14	C - 6		
IC15	C - 7		
IC16	D - 1		
IC17	D - 2		
IC18	D - 3		
IC19	D - 4		
IC20	D - 5		
IC21	D - 6		
IC22	D - 7		
IC23	E - 1		
IC24	E - 2		
IC25	E - 3		
IC26	E - 4		
IC27	E - 5		
IC28	E - 6		
IC29	E - 7		
IC30	F - 4		
IC31	F - 5		
IC32	F - 6		
IC33	F - 7		
IC34	G - 2		
IC35	G - 3		
IC36	G - 4		
IC37	G - 5		
IC38	G - 6		



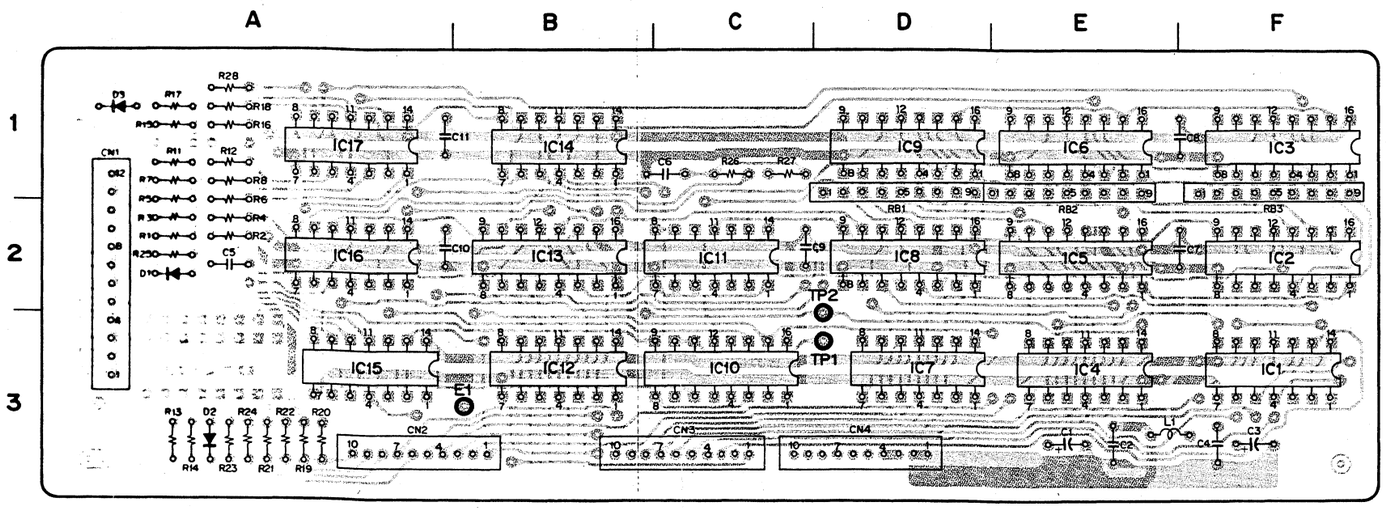
BC-5 –COMPONENT SIDE–

1-611-530-14
BVW-40
BVW-40P
BVW-40S

Ref. No.	Type	Pin No.	
		+5V	GND
IC 1	TC4008BP	16	8
IC 2	TC40H161P	16	8
IC 3	MC14584BCP	14	7
IC 4	TC4008BP	16	8
IC 5	TC40H161P	16	8
IC 6	TC40H161P	16	8
IC 7	TC40H004P	14	7
IC 8	TC40H074P	14	7
IC 9	TC40H138P	16	8
IC 10	TC40H138P	16	8
IC 11	TC40H138P	16	8
IC 12	TC40H138P	16	8
IC 13	TC4030BP	14	7
IC 14	TC4027BP	16	8
IC 15	SN7406N	14	7
IC 16	TC40H138P	16	8
IC 17	TC4019BP	16	8
IC 18	TC4019BP	16	8
IC 19	TC4025BP	14	7
IC 20	TC4081BP	14	7
IC 21	TC4027BP	16	8
IC 22	TC4050BP	1	8
IC 23	TC40H138P	16	8
IC 24	TC4019BP	16	8
IC 25	TC4019BP	16	8
IC 26	TC4025BP	14	7
IC 27	TC4081BP	14	7
IC 28	TC4027BP	16	8
IC 29	SN7406N	14	7
IC 30	TC4013BP	14	7
IC 31	TC4001BP	14	7
IC 32	TC4027BP	16	8
IC 33	TC4050BP	1	8
IC 34	TC4015BP	16	8
IC 35	TC4081BP	14	7
IC 36	TC4013BP	14	7
IC 37	TC4013BP	14	7
IC 38	MC14584BCP	14	7

BC-6 (AUDIO BLANKING SWITCHER)

Ref. No.	Type	Pin No.	
		+5V	GND
IC 1	M54529AP	14	7
IC 2	TC40174BP	16	8
IC 3	MC14094BCP	16	8
IC 4	M54529AP	14	7
IC 5	TC40174BP	16	8
IC 6	MC14094BCP	16	8
IC 7	M54529AP	14	7
IC 8	TC40174BP	16	8
IC 9	MC14094BCP	16	8
IC 10	TC4049BP	1	8
IC 11	TC4030BP	14	7
IC 12	M54529AP	14	7
IC 13	TC4555BP	16	8
IC 14	TC4081BP	14	7
IC 15	M54529AP	14	7
IC 16	MC14584BCP	14	7
IC 17	MC14584BCP	14	7

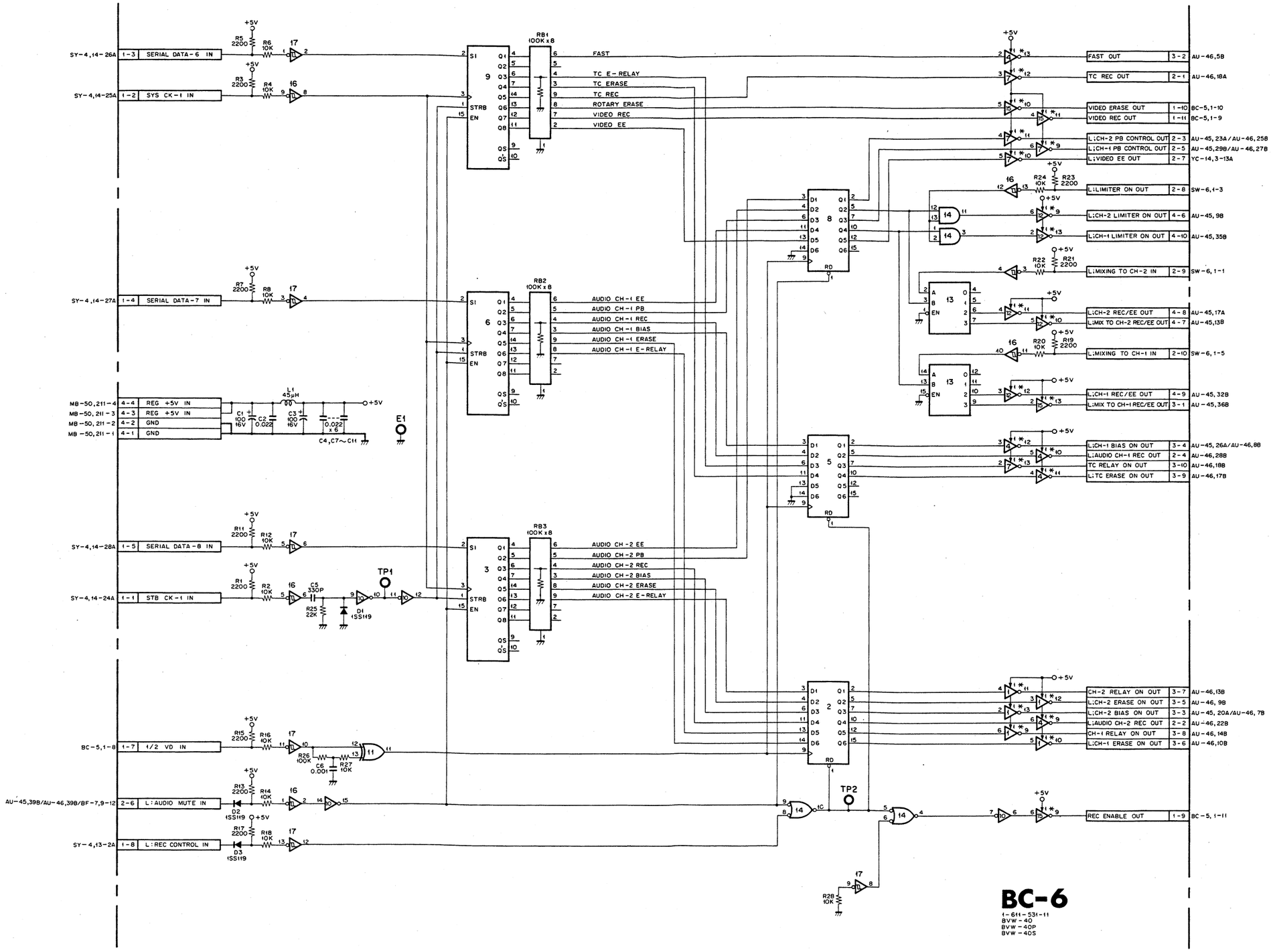


BC-6 –SOLDERING SIDE–

1-611-531-11
BVW-40
BVW-40P
BVW-40S

CN1	A - 2	RB1	D - 1
CN2	A - 3	RB2	E - 1
CN3	C - 3	RB3	F - 1
CN4	D - 3		
		TP1	D - 3
D1	A - 2	TP2	D - 2
D2	A - 3		
D3	A - 1		
E1	B - 3		
IC1	F - 3		
IC2	F - 3		
IC3	F - 1		
IC4	E - 3		
IC5	E - 2		
IC6	E - 1		
IC7	D - 3		
IC8	D - 2		
IC9	D - 1		
IC10	C - 3		
IC11	C - 2		
IC12	B - 3		
IC13	B - 2		
IC14	B - 1		
IC15	A - 3		
IC16	A - 2		
IC17	A - 1		

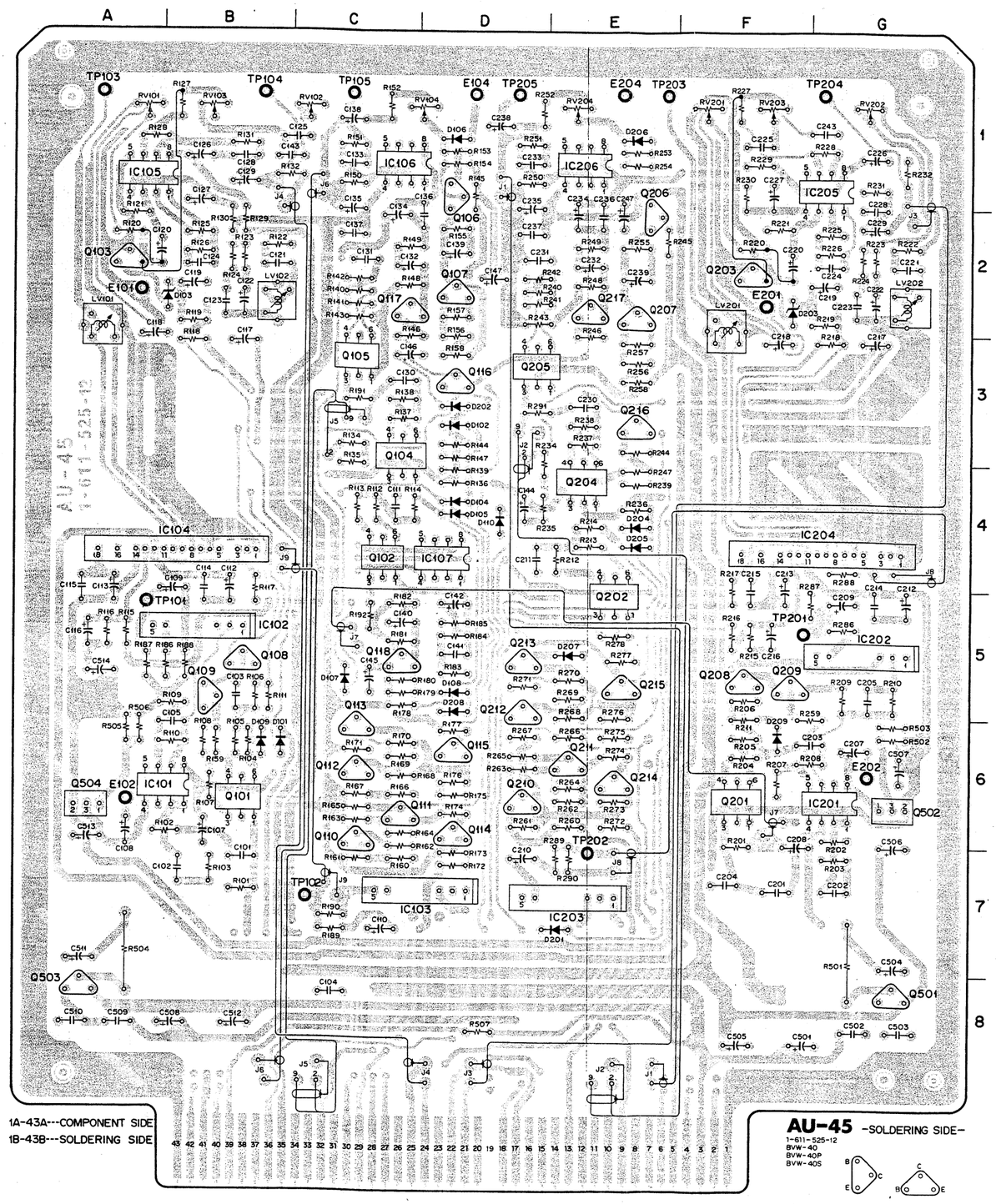
BC-6 (AUDIO BLANKING SWITCHER)



BC-6

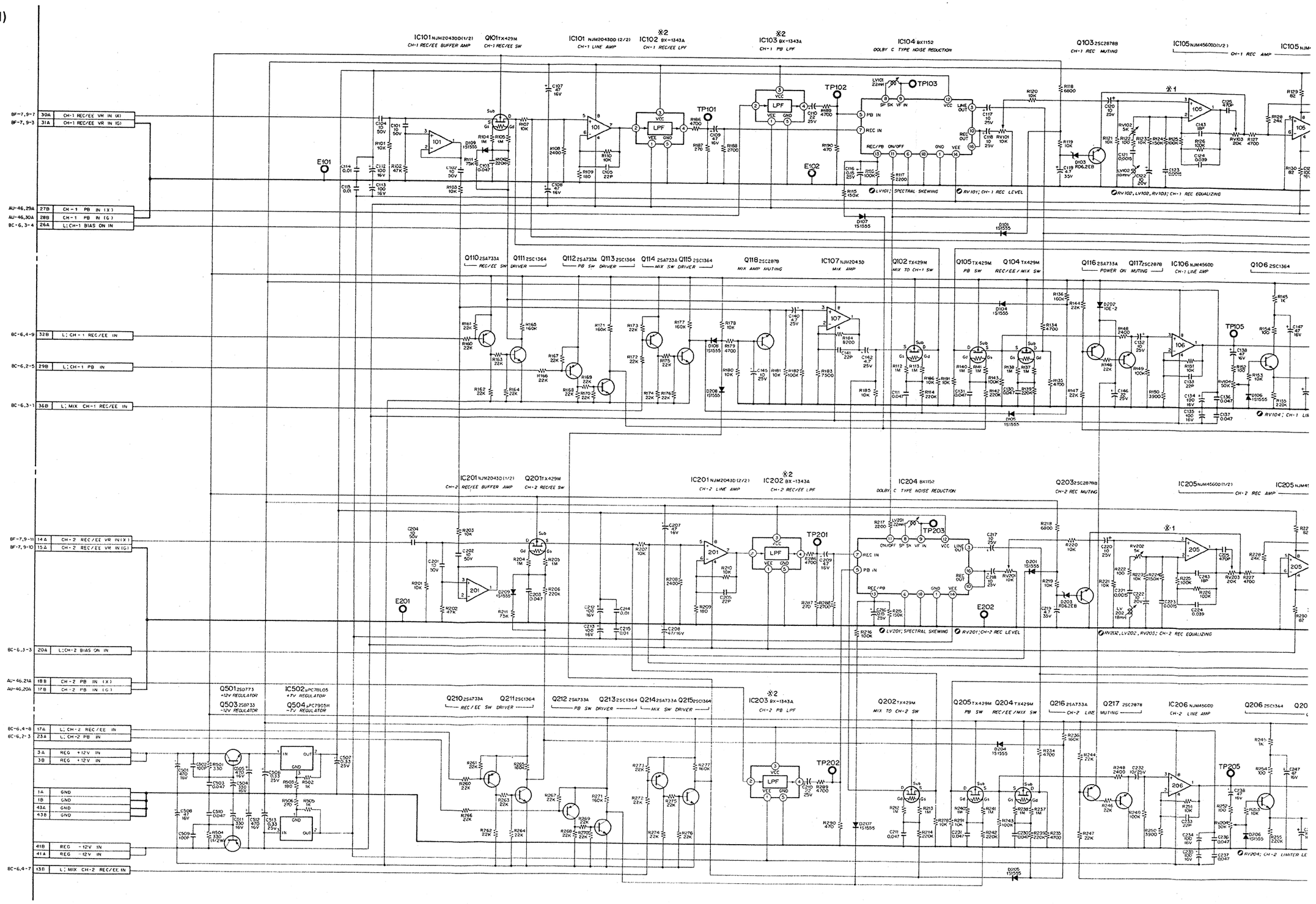
1-611-531-11
BVW-40
BVW-40P
BVW-40S

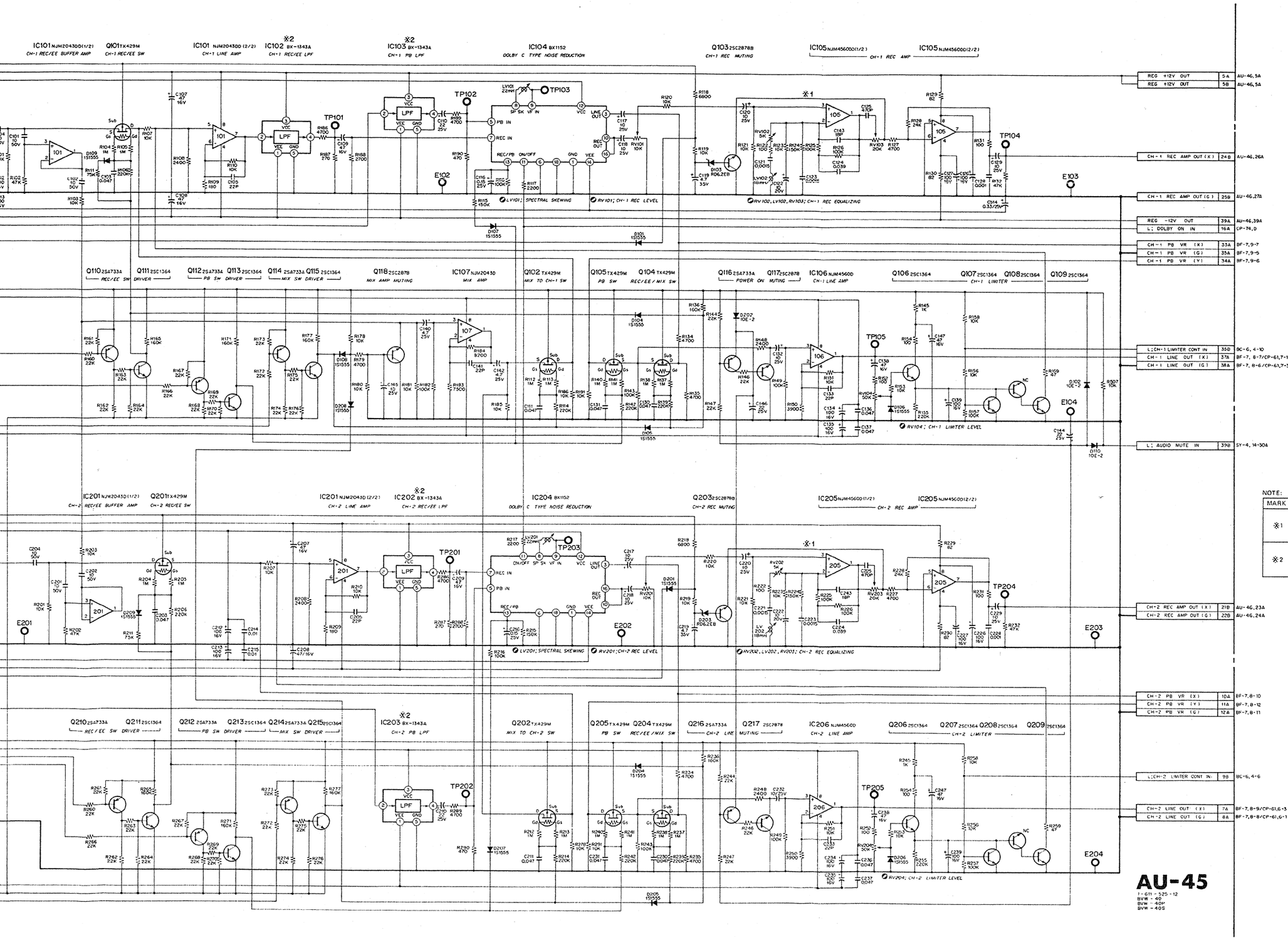
AU-45 (AUDIO REC PB SYSTEM)



D101	B - 6	RV101	A - 1		
D102	D - 3	RV102	C - 1		
D103	B - 2	RV103	B - 1		
D104	D - 4	RV104	D - 1		
D105	D - 4	RV201	F - 1		
D106	D - 1	RV202	G - 1		
D107	C - 5	RV203	F - 1		
D108	D - 5	RV204	E - 1		
D109	B - 6				
D110	D - 4	TP101	A - 5		
D201	E - 7	TP102	C - 7		
D202	D - 3	TP103	A - 1		
D203	F - 2	TP104	B - 1		
D204	E - 4	TP105	C - 1		
D205	E - 4	TP201	F - 5		
D206	E - 1	TP202	E - 7		
D207	E - 5	TP203	E - 1		
D208	D - 5	TP204	G - 1		
D209	F - 6	TP205	D - 1		
E101	A - 2				
E102	A - 6				
E104	D - 1				
E201	F - 2				
E202	G - 6				
E204	E - 1				
IC101	B - 6				
IC102	B - 5				
IC103	D - 7				
IC104	B - 4				
IC105	A - 1				
IC106	C - 1				
IC107	D - 4				
IC201	G - 6				
IC202	G - 5				
IC203	E - 7				
IC204	G - 4				
IC205	G - 1				
IC206	E - 1				
LV101	A - 2				
LV102	B - 2				
LV201	F - 2				
LV202	G - 2				
Q101	B - 6				
Q102	C - 4				
Q103	A - 2				
Q104	C - 3				
Q105	C - 3				
Q106	D - 1				
Q107	D - 2				
Q108	B - 5				
Q109	B - 5				
Q110	C - 6				
Q111	C - 6				
Q112	C - 6				
Q113	C - 6				
Q114	D - 6				
Q115	D - 6				
Q116	D - 3				
Q117	C - 2				
Q118	C - 5				
Q201	F - 6				
Q202	E - 5				
Q203	F - 2				
Q204	E - 4				
Q205	D - 3				
Q206	E - 2				
Q207	E - 2				
Q208	F - 5				
Q209	F - 5				
Q210	D - 6				
Q211	E - 6				
Q212	D - 5				
Q213	D - 5				
Q214	E - 6				
Q215	E - 5				
Q216	E - 3				
Q217	E - 2				
Q501	G - 8				
Q502	G - 6				
Q503	A - 8				
Q504	A - 6				

AU-45 (AUDIO REC PB SYSTEM)





NOTE:

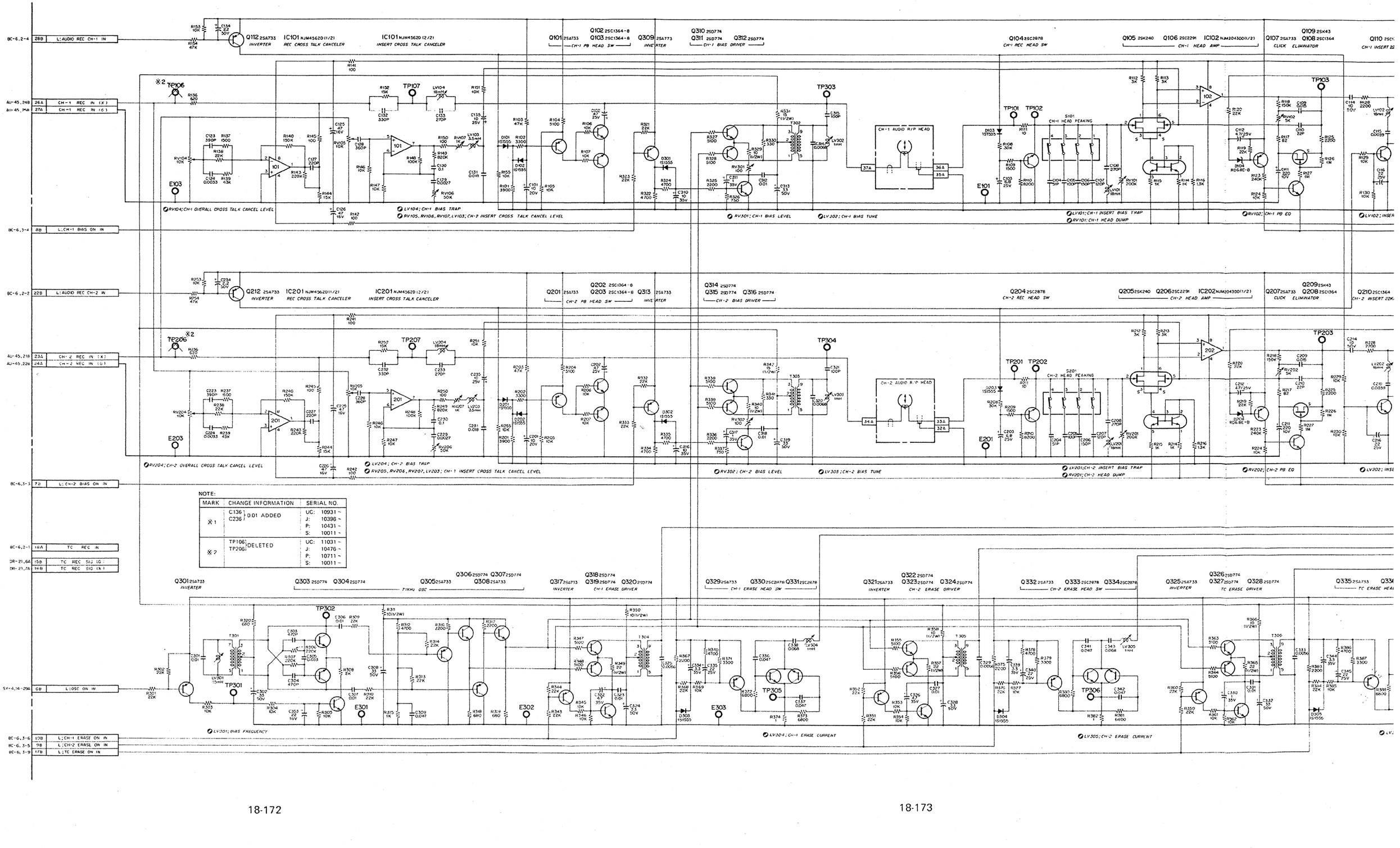
MARK	CHANGE INFORMATION	SERIAL NO.
※1	CHANGE CONNECTION	UC: 10921 ~ J: 10396 ~ P: 10431 ~ S: 10011 ~
※2	IC102, IC103, IC202, IC203 → AFL25F15000G1 BX-1343A	UC: 10931 ~ J: 10396 ~ P: 10481 ~ S: 10011 ~

AU-45

7-611-525-12
BVW-40
BVW-40P
BVW-40S

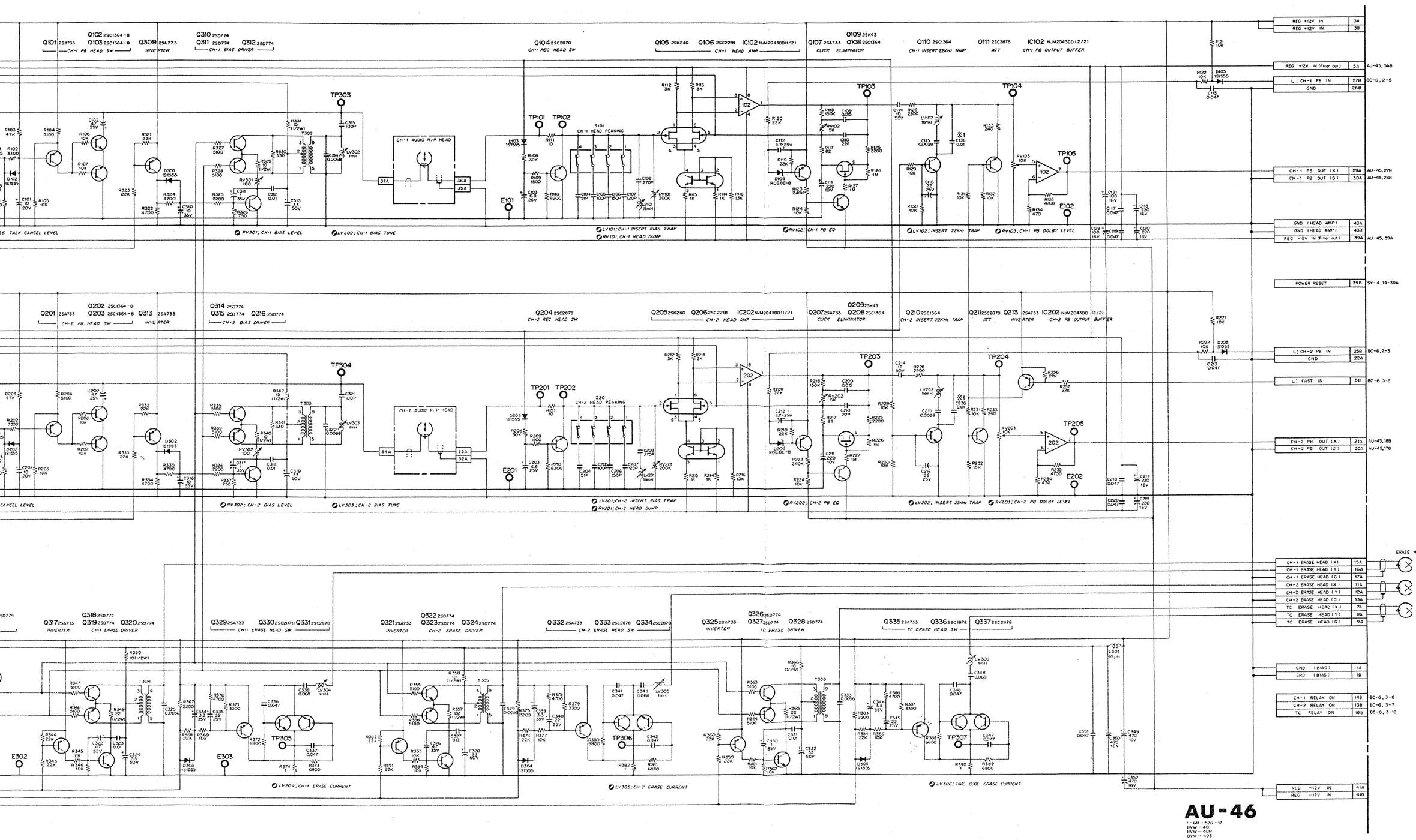
AU-46 AU-46

AU-46 (AUDIO REC PB SYSTEM)

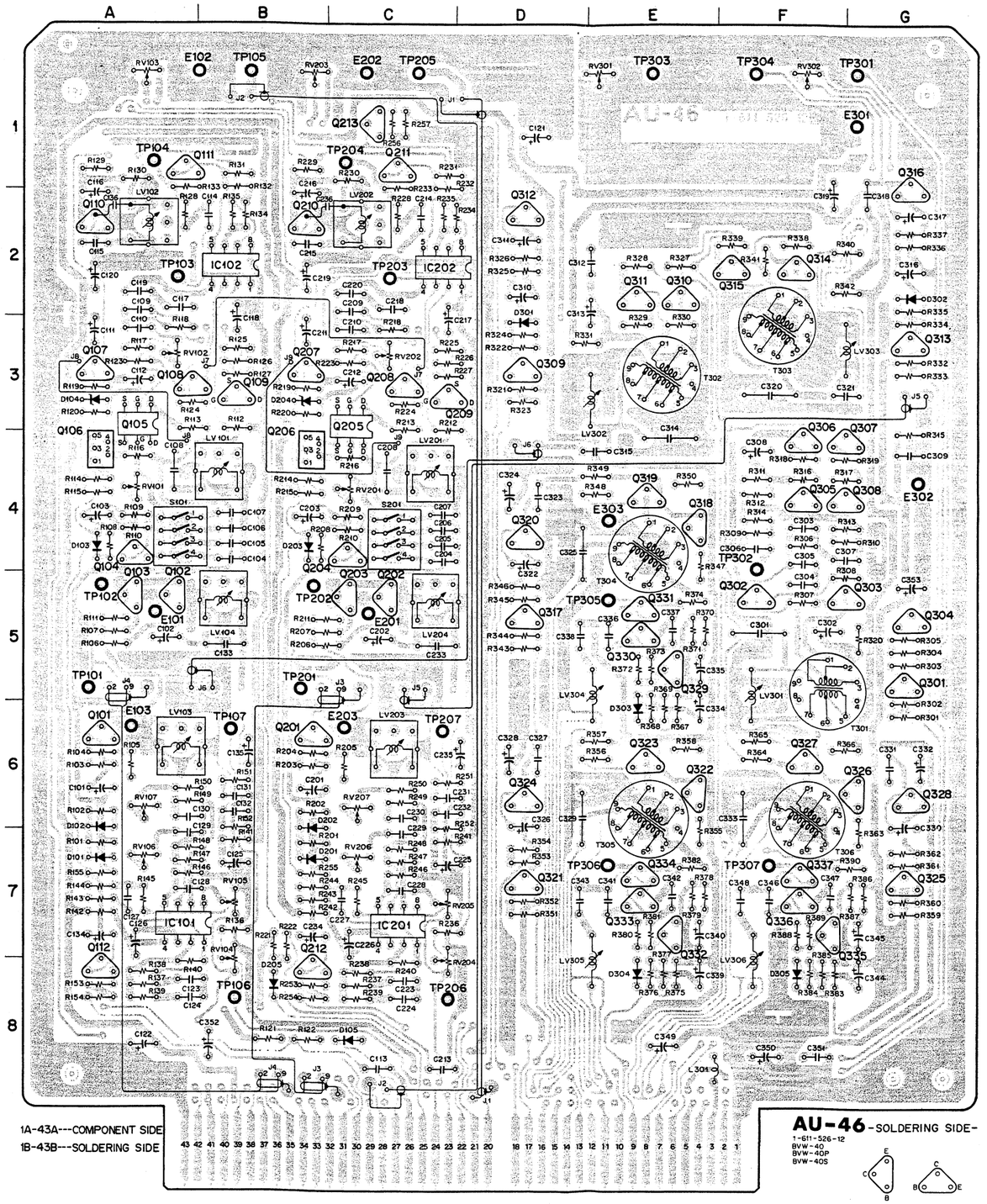


NOTE:

MARK	CHANGE INFORMATION	SERIAL NO.
※1	C136, C236 } 0.01 ADDED	UC: 10931 ~ J: 10396 ~ P: 10431 ~ S: 10011 ~
※2	TP106, TP206 } DELETED	UC: 11031 ~ J: 10476 ~ P: 10711 ~ S: 10011 ~

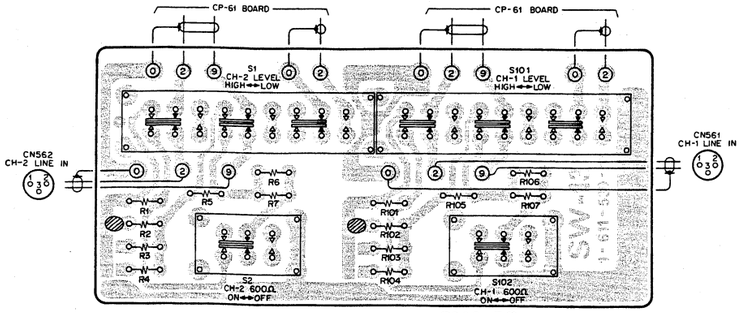

Q101 2SA733 Q102 2SC1364-B Q103 2SC1364-B CH-1 PB HEAD SW
Q309 2SA773 INVERTER
Q310 2SD774 Q311 2SD774 Q312 2SD774 CH-1 BIAS DRIVER
Q104 2SC2878 CH-1 REC HEAD SW
Q105 2SK240 Q106 2SC2291 IC102 NJM2043D(1/2) CH-1 HEAD AMP
Q107 2SA733 Q108 2SC1364 CLICK ELIMINATOR
Q109 2SK43
Q110 2SC1364 CH-1 INSERT 22KHz TRAP
Q111 2SC2878 ATT
IC102 NJM2043D(2/2) CH-1 PB OUTPUT BUFFER
TP303
TP101 TP102
TP103
TP104
TP105
CH-1 AUDIO R/P HEAD
S101 CH-1 HEAD PEAKING
E101
E102
REG +12V IN 3A
REG +12V IN 3B
REG +12V IN (Filter out) 5A
L : CH-1 PB IN 27B
GND 26B
CH-1 PB OUT (X) 29A
CH-1 PB OUT (G) 30A
GND (HEAD AMP) 43A
GND (HEAD AMP) 43B
REG +12V IN (Filter out) 39A
POWER RESET 59B
RV301; CH-1 BIAS LEVEL
LV302; CH-1 BIAS TUNE
LV101; CH-1 INSERT BIAS TRAP
RV101; CH-1 HEAD DUMP
RV102; CH-1 PB EQ
LV102; INSERT 22KHz TRAP
RV103; CH-1 PB DOLBY LEVEL
Q201 2SA733 Q202 2SC1364-B Q203 2SC1364-B Q313 2SA733 CH-2 PB HEAD SW
Q314 2SD774 Q315 2SD774 Q316 2SD774 CH-2 BIAS DRIVER
Q204 2SC2878 CH-2 REC HEAD SW
Q205 2SK240 Q206 2SC2291 IC202 NJM2043D(1/2) CH-2 HEAD AMP
Q207 2SA733 Q208 2SC1364 CLICK ELIMINATOR
Q209 2SK43
Q210 2SC1364 CH-2 INSERT 22KHz TRAP
Q211 2SC2878 Q213 2SA733 IC202 NJM2043D(2/2) ATT INVERTER CH-2 PB OUTPUT BUFFER
TP304
TP201 TP202
TP203
TP204
TP205
CH-2 AUDIO R/P HEAD
S201 CH-2 HEAD PEAKING
E201
E202
L : CH-2 PB IN 25B
GND 22A
L : FAST IN 5B
CH-2 PB OUT (X) 21A
CH-2 PB OUT (G) 20A
RV302 ; CH-2 BIAS LEVEL
LV303 ; CH-2 BIAS TUNE
LV201 ; CH-2 INSERT BIAS TRAP
RV201 ; CH-2 HEAD DUMP
RV202 ; CH-2 PB EQ
LV202 ; INSERT 22KHz TRAP
RV203 ; CH-2 PB DOLBY LEVEL
Q317 2SA733 Q318 2SD774 Q319 2SD774 Q320 2SD774 INVERTER CH-1 ERASE DRIVER
Q329 2SA733 Q330 2SC2878 Q331 2SC2878 CH-1 ERASE HEAD SW
Q321 2SA733 Q322 2SD774 Q323 2SD774 Q324 2SD774 INVERTER CH-2 ERASE DRIVER
Q332 2SA733 Q333 2SC2878 Q334 2SC2878 CH-2 ERASE HEAD SW
Q325 2SA733 Q326 2SD774 Q327 2SD774 Q328 2SD774 TC ERASE DRIVER
Q335 2SA733 Q336 2SC2878 Q337 2SC2878 TC ERASE HEAD SW
TP305
TP306
TP307
E302
E303
CH-1 ERASE HEAD (X) 15A
CH-1 ERASE HEAD (Y) 16A
CH-1 ERASE HEAD (G) 17A
CH-2 ERASE HEAD (X) 11A
CH-2 ERASE HEAD (Y) 12A
CH-2 ERASE HEAD (G) 13A
TC ERASE HEAD (X) 7A
TC ERASE HEAD (Y) 8A
TC ERASE HEAD (G) 9A
ERASE HEAD
CH-1
CH-2
TC
GND (BIAS) 1A
GND (BIAS) 1B
CH-1 RELAY ON 14B
CH-2 RELAY ON 13B
TC RELAY ON 10B
REG -12V IN 41A
REG -12V IN 41B
LV304 ; CH-1 ERASE CURRENT
LV305 ; CH-2 ERASE CURRENT
LV306 ; TIME CODE ERASE CURRENT
AU-46
1-611-526-12
BVW-40
BVW-40P
BVW-40S

AU-46 (AUDIO REC PB SYSTEM)



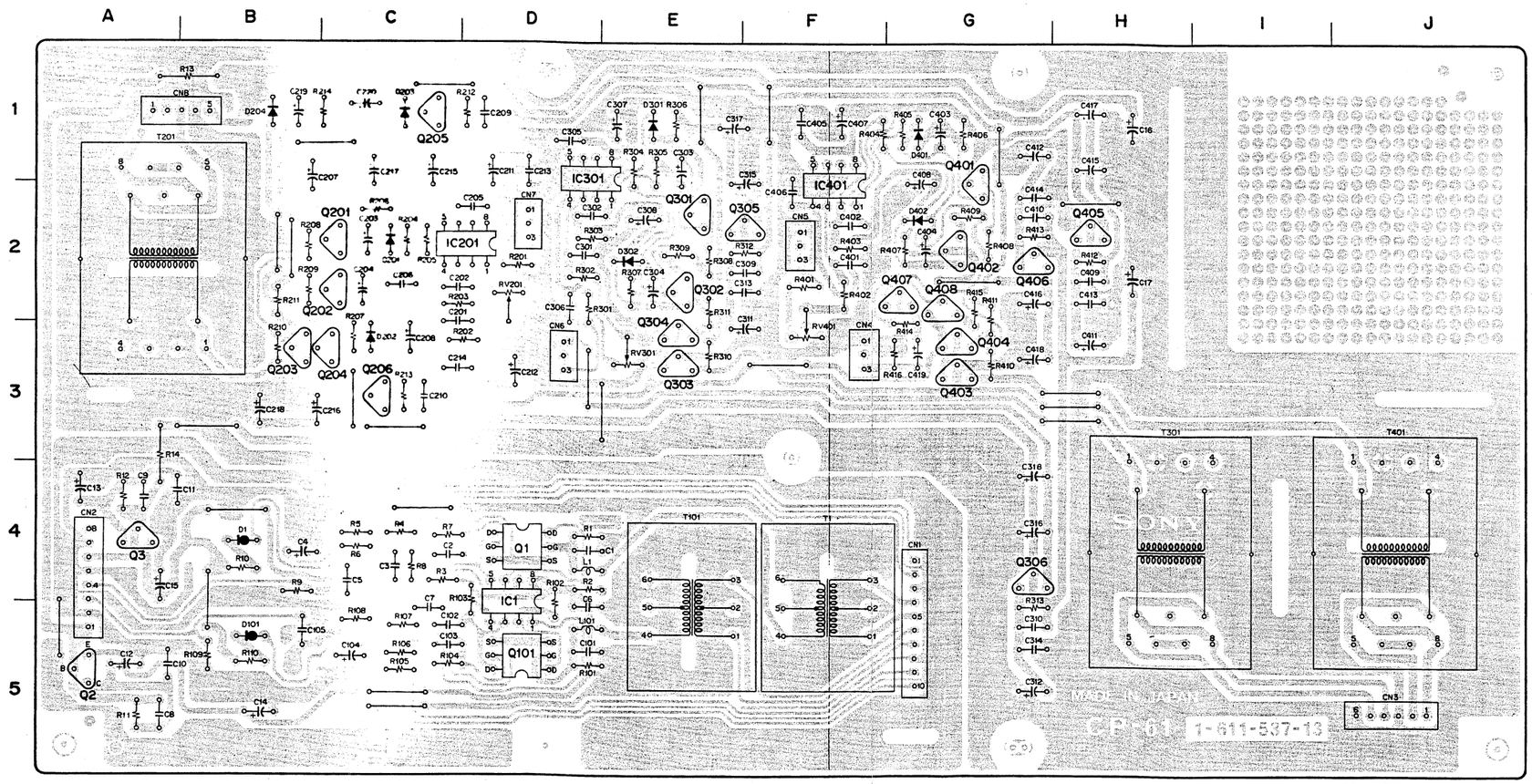
D101	A - 7	Q330	E - 5
D102	A - 6	Q331	E - 5
D103	A - 4	Q332	E - 7
D104	A - 3	Q333	E - 7
D105	C - 8	Q334	E - 7
D201	B - 7	Q335	F - 7
D202	B - 7	Q336	F - 7
D203	B - 4	Q337	F - 7
D204	B - 3		
D205	B - 8	RV101	A - 4
D301	D - 3	RV102	A - 3
D302	G - 2	RV103	A - 1
D303	E - 6	RV104	B - 7
D304	E - 8	RV105	B - 7
D305	F - 8	RV106	A - 7
		RV107	A - 6
E101	A - 5	RV201	C - 1
E102	B - 1	RV202	C - 3
E103	A - 6	RV203	B - 1
E201	C - 5	RV201	C - 8
E202	C - 1	RV205	C - 7
E203	C - 6	RV206	C - 7
E301	G - 1	RV207	C - 6
E302	G - 4	RV301	E - 1
E303	E - 4	RV302	F - 1
IC101	A - 7	S101	A - 4
IC102	B - 2	S201	C - 4
IC201	C - 7		
IC202	C - 2	T301	F - 5
		T302	E - 3
LV101	B - 4	T303	F - 3
LV102	A - 2	T304	E - 4
LV103	A - 6	T305	E - 6
LV104	B - 5	T306	F - 6
LV201	C - 4		
LV202	C - 2	TP101	A - 5
LV203	C - 6	TP102	A - 5
LV204	C - 5	TP103	A - 2
LV301	F - 5	TP104	A - 1
LV302	E - 3	TP105	B - 1
LV303	G - 3	TP106	B - 8
LV304	E - 5	TP107	B - 6
LV305	E - 7	TP201	B - 5
LV306	F - 7	TP202	B - 5
		TP203	C - 2
Q101	A - 6	TP204	C - 1
Q102	A - 5	TP205	C - 1
Q103	A - 5	TP206	C - 8
Q104	A - 1	TP207	C - 6
Q105	A - 3	TP301	G - 1
Q106	A - 1	TP302	F - 4
Q107	A - 3	TP303	E - 1
Q108	A - 3	TP304	F - 1
Q109	B - 3	TP305	E - 5
Q110	A - 2	TP306	E - 7
Q111	A - 1	TP307	F - 7
Q112	A - 8		
Q201	B - 6		
Q202	C - 5		
Q203	C - 5		
Q204	C - 4		
Q205	C - 3		
Q206	B - 4		
Q207	B - 3		
Q208	C - 3		
Q209	C - 3		
Q210	B - 2		
Q211	C - 1		
Q212	B - 8		
Q213	C - 1		
Q301	G - 5		
Q302	F - 5		
Q303	G - 5		
Q304	G - 5		
Q305	F - 1		
Q306	F - 1		
Q307	G - 1		
Q308	G - 1		
Q309	D - 3		
Q310	E - 2		
Q311	E - 2		
Q312	D - 2		
Q313	G - 3		
Q314	F - 2		
Q315	F - 2		
Q316	G - 2		
Q317	D - 5		
Q318	E - 4		
Q319	E - 4		
Q320	D - 4		
Q321	D - 7		
Q322	E - 6		
Q323	E - 6		
Q324	D - 6		
Q325	G - 7		
Q326	G - 6		
Q327	F - 6		
Q328	G - 6		
Q329	E - 5		

CP-61 (AUDIO INPUT/OUTPUT AMPLIFIER)
SW-13

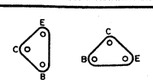


SW-13 –SOLDERING SIDE–

1-611-539-11
BVW-40
BVW-40P
BVW-40S



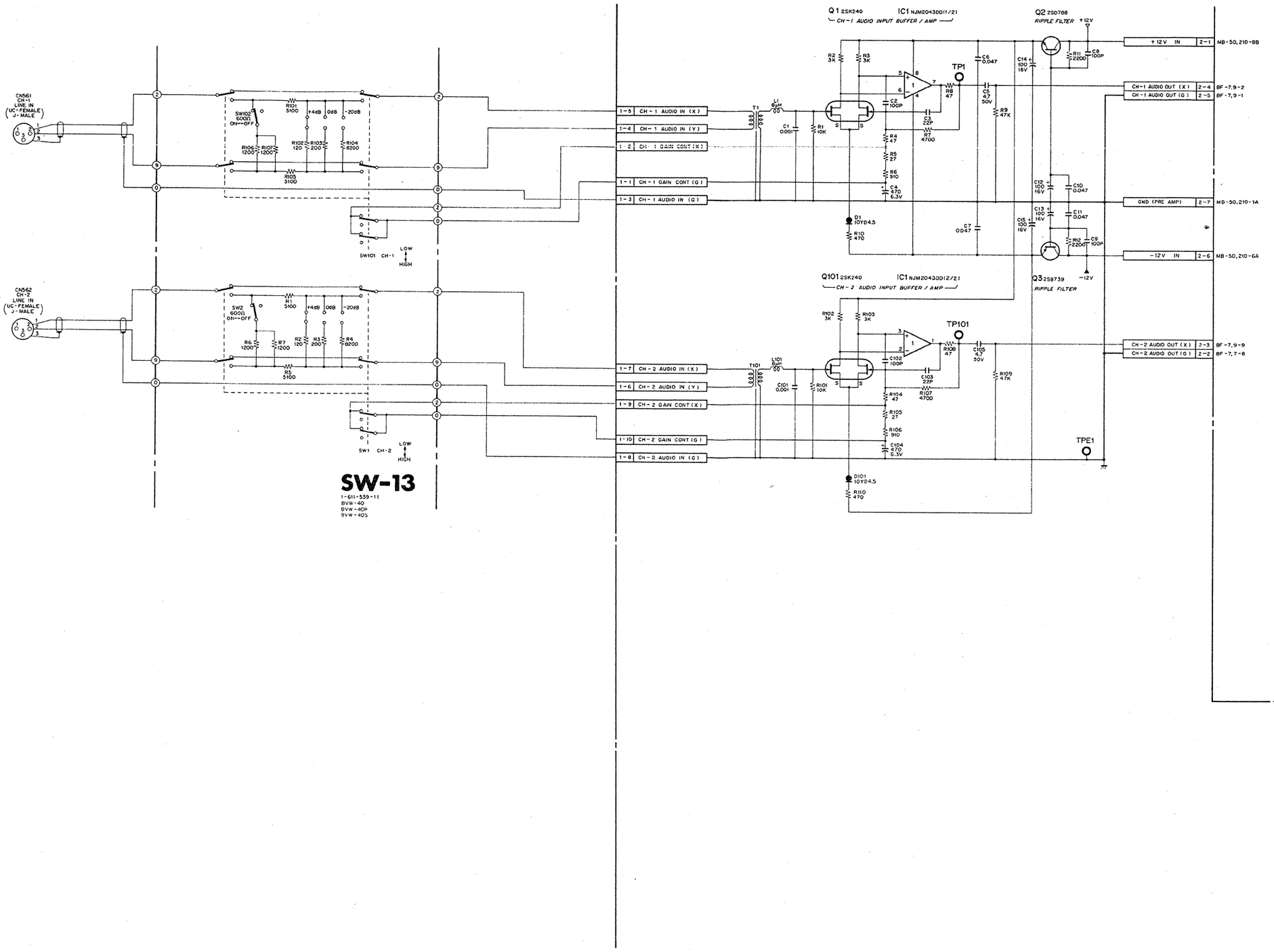
CN1	G - 5
CN2	A - 4
CN3	J - 5
CN4	F - 3
CN5	F - 2
CN6	D - 3
CN7	D - 2
CN8	B - 1
D1	B - 4
D101	B - 5
D201	C - 2
D202	C - 3
D203	C - 1
D204	B - 1
D301	E - 1
D302	E - 2
D401	G - 1
D402	G - 2
IC1	D - 5
IC201	D - 2
IC301	D - 1
IC401	F - 2
Q1	D - 4
Q2	A - 5
Q3	A - 4
Q101	D - 5
Q201	C - 2
Q202	C - 2
Q203	B - 3
Q204	C - 3
Q205	C - 1
Q206	C - 3
Q301	E - 2
Q302	E - 2
Q303	E - 3
Q304	E - 3
Q305	F - 2
Q306	G - 4
Q401	G - 2
Q402	G - 2
Q403	G - 3
Q404	G - 3
Q405	H - 2
Q406	G - 2
Q407	G - 2
Q408	G - 2
RV201	D - 2
RV301	E - 3
RV401	F - 3
T1	F - 5
T101	E - 5
T201	A - 2
T301	H - 4
T401	J - 4



CP-61 –SOLDERING SIDE–

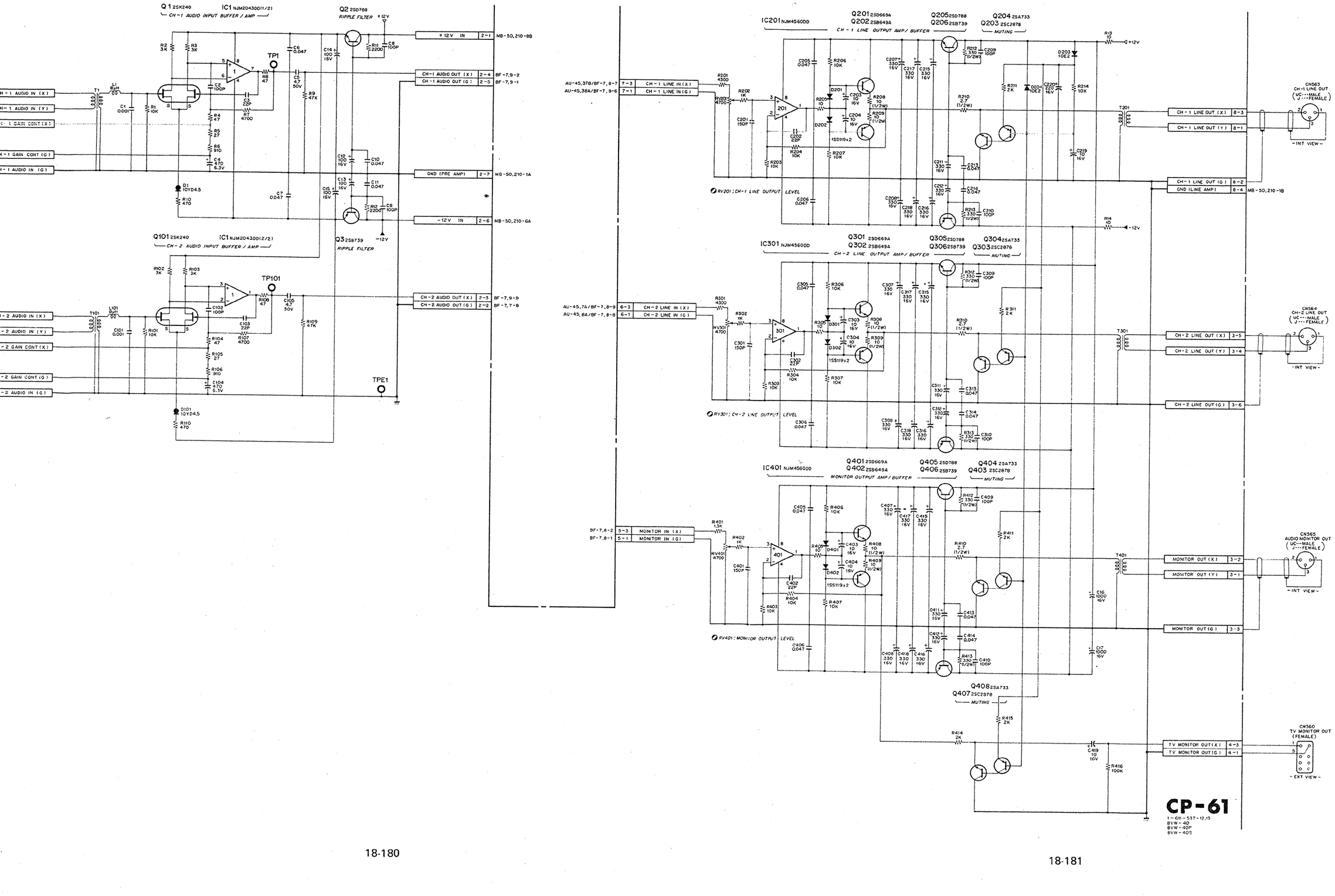
1-611-537-13
BVW-40
BVW-40P
BVW-40S

CP-61 (AUDIO INPUT/OUTPUT AMPLIFIER)
SW-13



SW-13

1-611-539-11
BVW-40
BVW-40P
BVW-40S

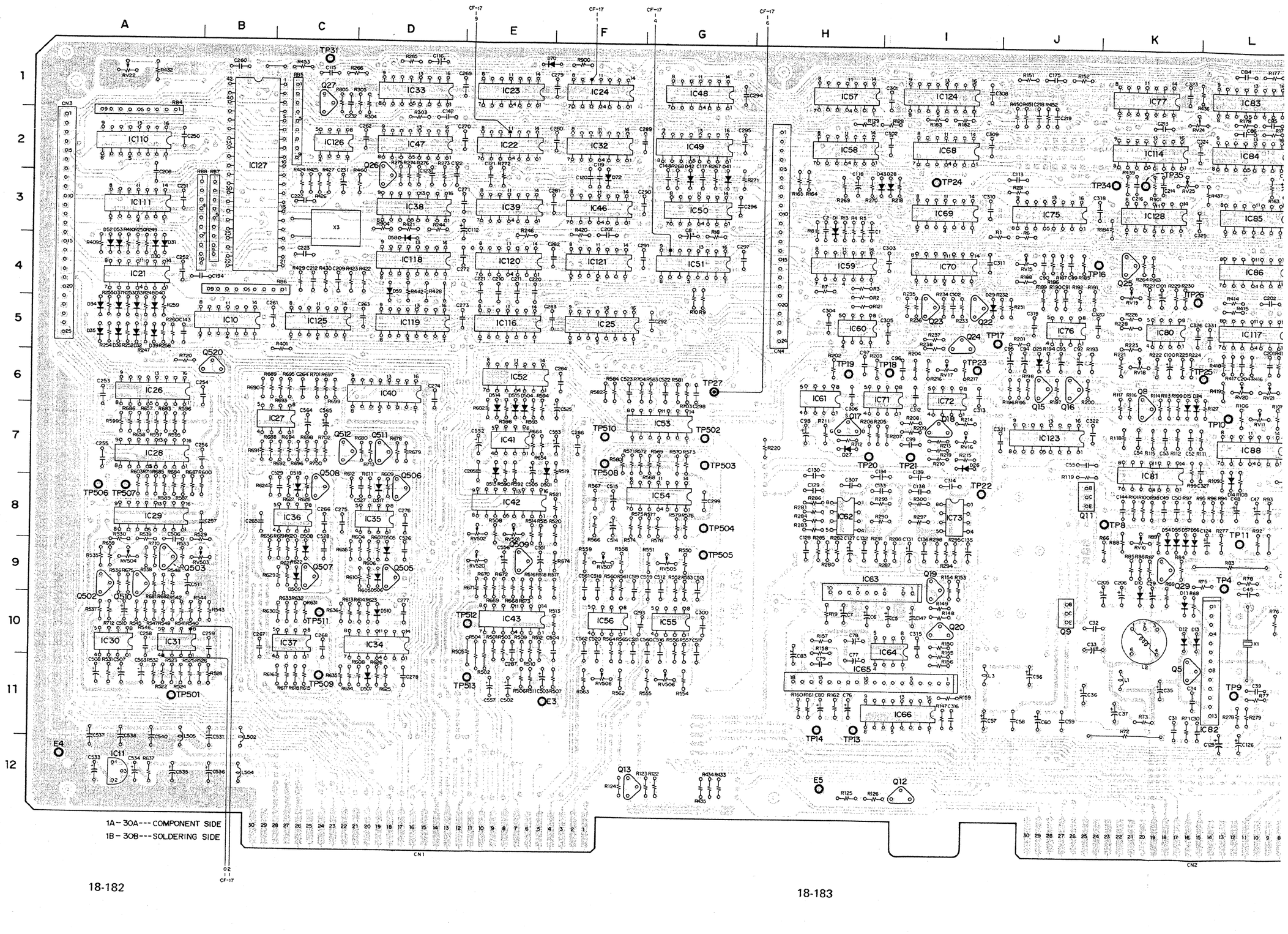


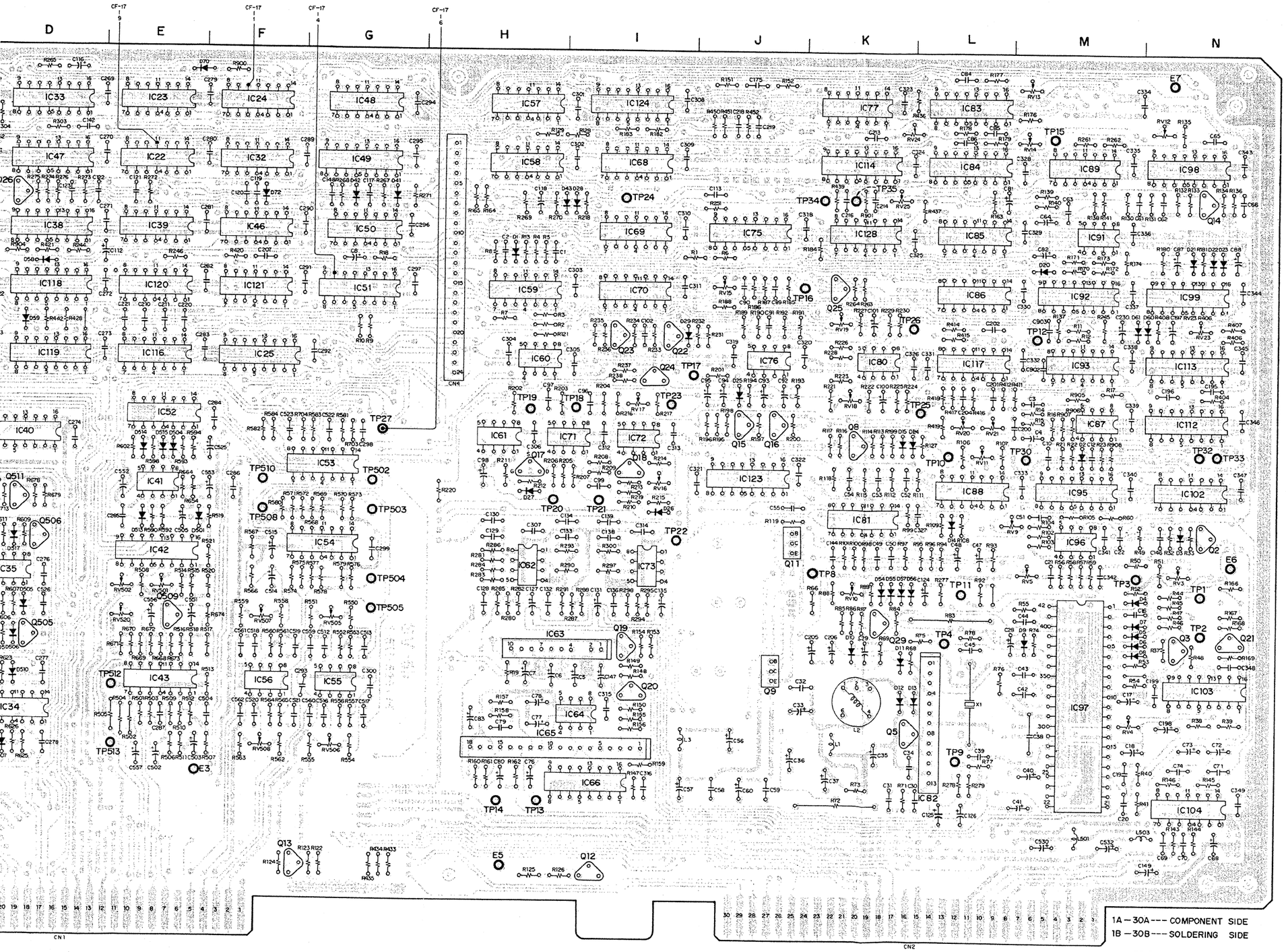
CP-61

1-611-537-12,13
BVW-40
BVW-40P
BVW-40S

SV-55 (SERVO SYSTEM)

CN1	D - 12	IC40	D - 6	Q29	K - 9
CN2	L - 12	IC41	E - 7	Q502	A - 9
CN3	A - 2	IC42	E - 8	Q503	A - 9
CN4	H - 3	IC43	E - 10	Q505	D - 9
		IC46	F - 3	Q506	D - 8
D1	H - 3	IC47	D - 2	Q507	C - 9
D2	M - 7	IC48	G - 1	Q508	C - 8
D3	N - 8	IC49	G - 2	Q509	E - 9
D4	N - 9	IC50	G - 3	Q510	A - 9
D5	N - 9	IC51	G - 4	Q511	D - 7
D6	N - 9	IC52	E - 6	Q512	C - 7
D7	N - 9	IC53	G - 7	Q520	B - 6
D8	N - 9	IC54	G - 8		
D9	M - 9	IC55	G - 10	RB4	A - 2
D10	K - 9	IC56	F - 10	RB5	C - 2
D11	K - 10	IC57	H - 1	RB6	B - 4
D12	K - 10	IC58	H - 2	RB7	B - 3
D13	L - 10	IC59	H - 4	RB8	B - 3
D14	L - 8	IC60	H - 5		
D15	K - 6	IC61	H - 6	RV3	N - 8
D20	M - 4	IC62	H - 8	RV4	M - 11
D21	N - 3	IC63	H - 9	RV5	M - 8
D22	N - 3	IC64	I - 10	RV9	M - 7
D23	N - 3	IC65	H - 11	RV10	K - 8
D24	L - 6	IC66	I - 11	RV11	L - 7
D25	J - 6	IC68	I - 2	RV12	N - 1
D26	I - 7	IC69	I - 3	RV13	M - 1
D27	H - 7	IC70	I - 4	RV14	M - 2
D28	I - 3	IC71	I - 6	RV15	J - 4
D29	I - 5	IC72	I - 8	RV16	I - 7
D30	A - 4	IC73	I - 8	RV17	I - 6
D31	A - 4	IC75	J - 3	RV18	K - 6
D32	A - 5	IC76	J - 5	RV19	K - 4
D33	A - 5	IC77	K - 1	RV20	L - 6
D34	A - 5	IC80	K - 5	RV21	L - 6
D35	A - 5	IC81	K - 7	RV22	A - 1
D36	A - 5	IC82	L - 11	RV23	N - 4
D37	A - 5	IC83	L - 1	RV24	K - 2
D39	A - 5	IC84	L - 2	RV25	K - 2
D40	A - 5	IC85	L - 3	RV501	E - 8
D41	G - 3	IC86	L - 4	RV502	E - 8
D42	G - 3	IC87	M - 6	RV503	B - 9
D43	I - 3	IC88	L - 7	RV504	A - 9
D52	A - 4	IC89	M - 2	RV505	G - 9
D53	A - 4	IC91	M - 3	RV506	G - 11
D54	K - 8	IC92	M - 4	RV507	F - 9
D55	K - 8	IC93	M - 5	RV508	F - 11
D56	L - 8	IC95	M - 7	RV520	E - 9
D57	K - 8	IC96	M - 8		
D58	D - 4	IC97	M - 10	TP1	N - 8
D59	D - 4	IC98	N - 2	TP2	N - 9
D60	N - 4	IC99	N - 4	TP3	M - 8
D61	M - 4	IC102	N - 7	TP4	L - 9
D70	E - 1	IC103	N - 10	TP8	K - 8
D72	F - 3	IC104	N - 11	TP9	L - 11
D501	E - 7	IC110	A - 2	TP10	L - 7
D504	E - 7	IC111	A - 3	TP11	L - 8
D505	D - 9	IC112	N - 6	TP12	M - 5
D506	D - 9	IC113	N - 5	TP13	H - 11
D507	D - 11	IC114	K - 2	TP14	H - 11
D508	C - 9	IC115	J - 2	TP15	M - 2
D509	C - 9	IC116	E - 5	TP16	K - 4
D510	D - 10	IC117	L - 5	TP17	J - 5
D513	E - 7	IC118	D - 4	TP18	I - 6
D514	E - 7	IC119	D - 5	TP19	H - 6
D515	E - 7	IC120	E - 4	TP20	H - 7
D517	D - 8	IC121	F - 4	TP21	I - 7
D518	C - 8	IC123	J - 7	TP22	I - 8
		IC124	I - 1	TP23	I - 6
E3	E - 11	IC125	C - 5	TP24	I - 3
E4	A - 12	IC126	C - 2	TP25	L - 6
E5	H - 12	IC127	B - 2	TP26	L - 4
E6	N - 8	IC128	K - 3	TP27	G - 6
E7	N - 1			TP30	M - 7
				TP31	C - 1
IC10	B - 5	Q2	N - 8	TP32	N - 7
IC11	A - 12	Q3	N - 9	TP33	N - 7
IC21	A - 4	Q5	L - 11	TP34	K - 3
IC22	E - 2	Q8	K - 6	TP35	K - 3
IC23	E - 1	Q9	J - 10	TP501	A - 11
IC24	F - 1	Q11	J - 8	TP502	G - 7
IC25	F - 5	Q12	I - 12	TP503	G - 7
IC26	A - 6	Q13	F - 12	TP504	G - 8
IC27	C - 7	Q14	N - 3	TP505	G - 9
IC28	A - 7	Q15	J - 6	TP506	A - 8
IC29	A - 8	Q16	J - 6	TP507	A - 8
IC30	A - 10	Q17	H - 7	TP508	F - 7
IC31	A - 10	Q18	I - 7	TP509	C - 11
IC32	F - 2	Q19	I - 9	TP510	F - 7
IC33	D - 1	Q20	I - 10	TP511	C - 10
IC34	D - 10	Q21	N - 9	TP512	E - 10
IC35	D - 8	Q22	I - 5	TP513	E - 11
IC36	C - 8	Q23	I - 5		
IC37	C - 10	Q24	I - 5	X1	L - 10
IC38	D - 3	Q25	K - 4	X3	C - 3
IC39	E - 3	Q26	D - 3		
		Q27	C - 1		





SV-55

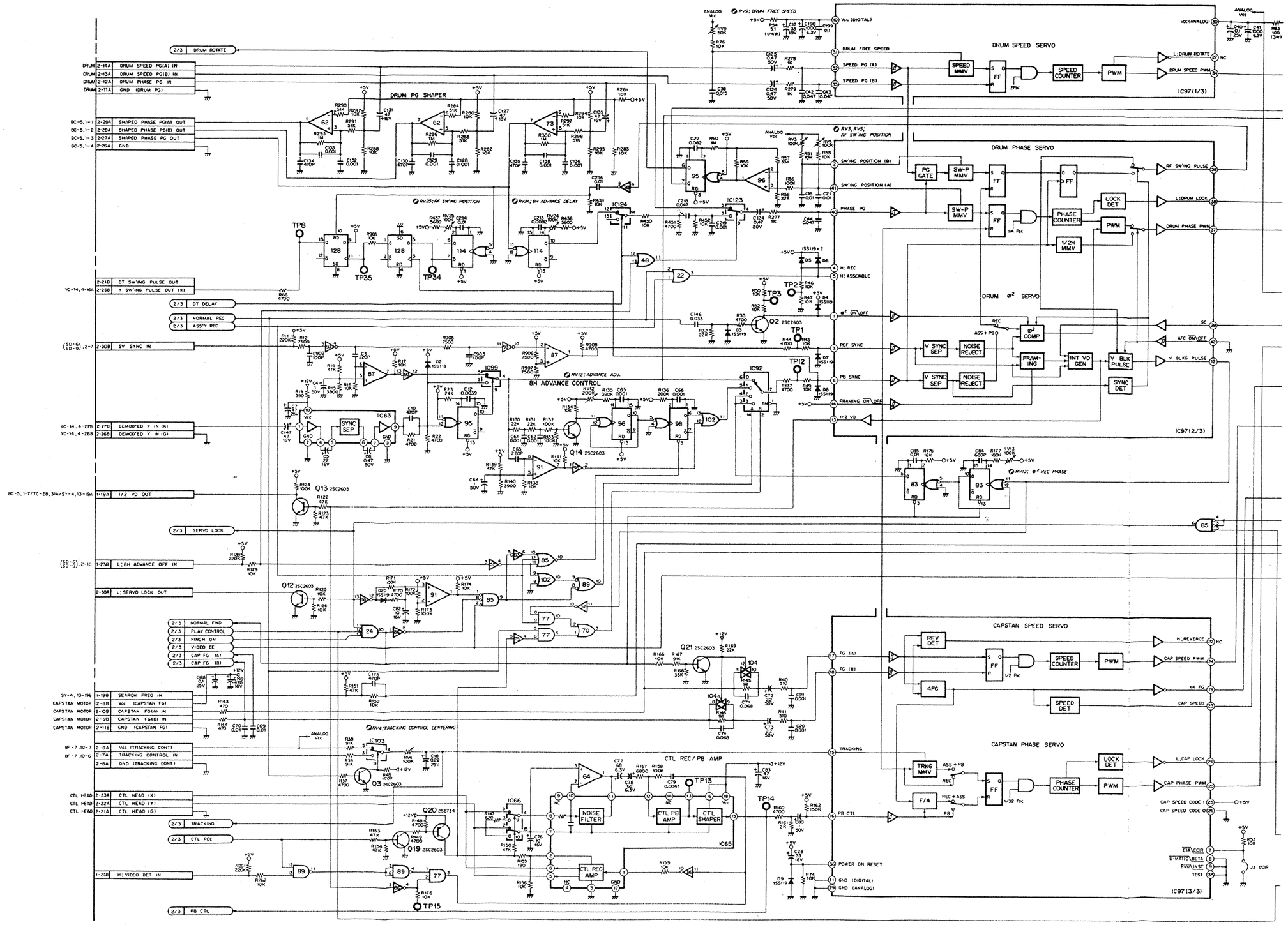
Ref. No.	Type	Pin No.						
		5V	12V	15V	−5V	−12V	−15V	GND
IC 10	SN74LS37N	14						7
IC 11	NJM78L05A			REFER TO SCHEMATIC				
IC 21	MC14584BCP	14						7
IC 22	TC4071BP	14						7
IC 23	TC4069UBP	14						7
IC 24	TC4073BP	14						7
IC 25	TC4021BP	16						8
IC 26	TC4051BP	16			7			8
IC 27	μPC358C	8						4
IC 28	TC4051BP	16			7			8
IC 29	HD14538BP	16						8
IC 30	μPC358C	8						4
IC 31	NJM2903D	8						4
IC 32	TC4001BP	14						7
IC 33	HD14538BP	16						8
IC 34	μPC339C			8			4	
IC 35	μPC358C			8			4	
IC 36	μPC358C			8			4	
IC 37	NJM4558D-FA			8			4	
IC 38	HD14538BP	16						8
IC 39	TC4069UBP	14						7
IC 40	TC5067BP	16						8
IC 41	μPC4558C		8		4			
IC 42	TC4053BP	16						7, 8
IC 43	μPC324C		4					11
IC 46	TC4081BP	14						7
IC 47	TC4053BP	16						7, 8
IC 48	TC4071BP	14						7
IC 49	TC4053BP	16						7, 8
IC 50	TC4001BP	14						7
IC 51	HD14538BP	16						8
IC 52	TC4013BP	14						7
IC 53	TC4030BP	14						7
IC 54	μPC339C		8					4
IC 55	μPC4558C		8					4
IC 56	μPC4558C		8					4
IC 57	TC4069UBP	14						7
IC 58	TC4069UBP	14						7
IC 59	TC4011BP	14						7
IC 60	μPC4558C			8	4			
IC 61	NJM2903D		8					4
IC 62	μPC358C	8						4
IC 63	BX3915A			REFER TO SCHEMATIC				
IC 64	NJM4558D-D		8					4
IC 65	BX3914			REFER TO SCHEMATIC				
IC 66	TC4053BP		16					7, 8
IC 68	TC4001BP	14						7
IC 69	TC4030BP	14						7
IC 70	TC4071BP	14						7
IC 71	μPC4558C		8					4
IC 72	μPC358C		8					4
IC 73	μPC358C	8						4
IC 75	TC4050BP	1						8
IC 76	NJM4558D			8	4			
IC 77	TC4081BP	14						7
IC 80	NJM2903D		8					4
IC 81	μPC324C		4					11
IC 82	BX1154			REFER TO SCHEMATIC				
IC 83	HD14538BP	16						8
IC 84	HD14538BP	16						8
IC 85	TC4025BP	14						7
IC 86	TC4069UBP	14						7
IC 87	NJM2093D	8						4
IC 88	TC4066BP	14						7
IC 89	TC4011BP	14						7
IC 91	NJM2903D	8						4
IC 92	TC4539BP	16						8
IC 93	TC4069UBP	14						7
IC 95	HD14538BP	16						8
IC 96	NJM2903D	8						4
IC 97	CX194B			REFER TO SCHEMATIC				
IC 98	HD14538BP	16						8
IC 99	TC4053BP	16						7, 8
IC 102	TC4071BP	14						7
IC 103	TC4053BP		16					7, 8
IC 104	TC4066BP	14						7
IC 110	TC4094BF	16						8
IC 111	TC4069UBP	14						7
IC 112	HD14538BP	16						8
IC 113	MC14046BCP	16						8
IC 114	HD14538BP	16						8
IC 116	TC4013BP	14						7
IC 117	μPC324C	4			11			
IC 118	TC4516BP	16						8
IC 119	TC4516BP	16						8
IC 120	TC4081BP	14						7
IC 121	TC4030BP	14						7
IC 123	TC4053BP	16				7		8
IC 124	TC4053BP	16						7, 8
IC 125	TC4073BP	14						7
IC 126	NJM2903D	8						4
IC 127	MB88501-207L	42						21
IC 128	TC4013BP	14						7

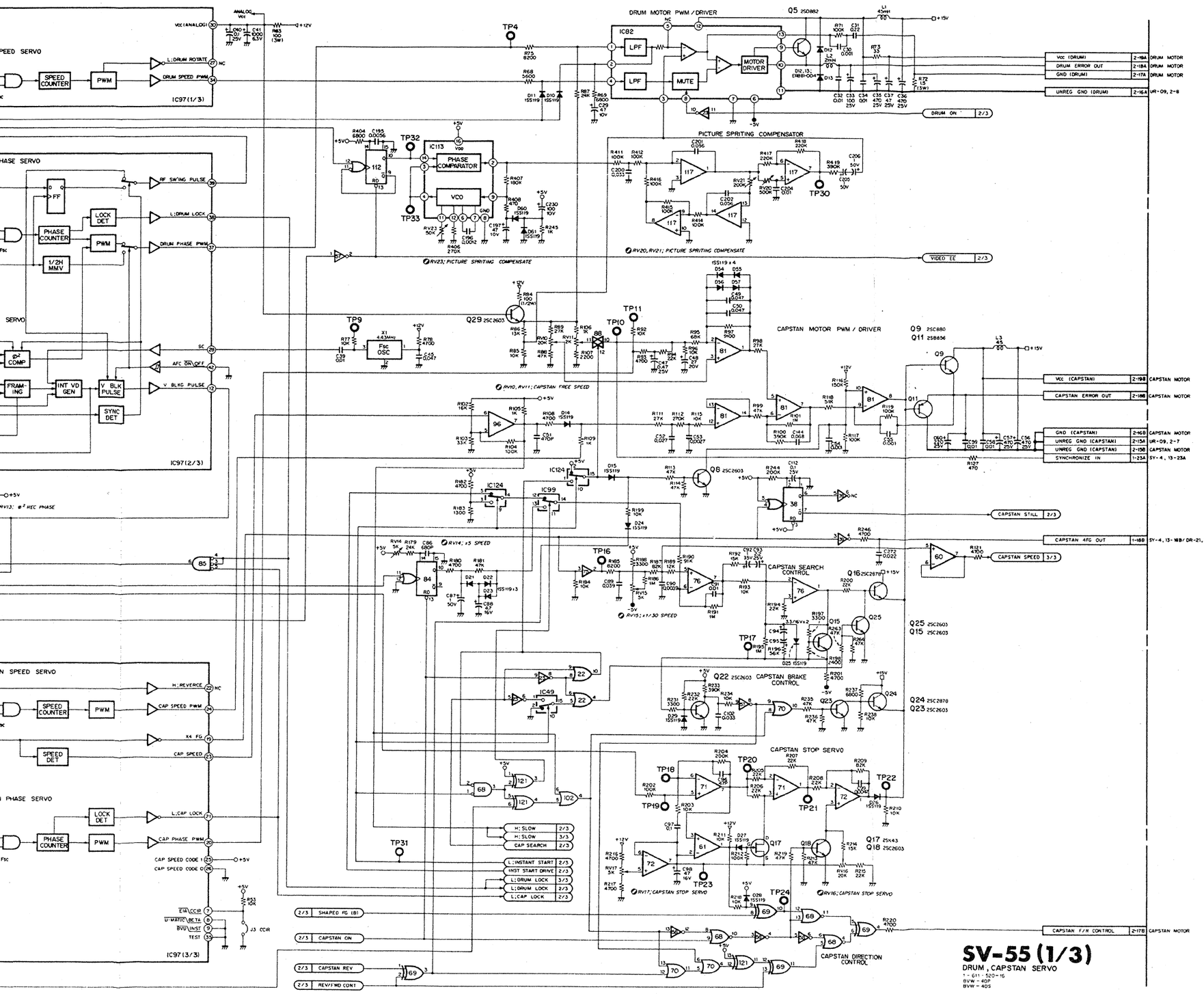
1A—30A--- COMPONENT SIDE
1B—30B--- SOLDERING SIDE

SV-55—SOLDERING SIDE—

1-611-520-16
BVW-40P
BVW-40S

SV-55 (1/3) (SERVO SYSTEM)





SV-55 (1/3)

DRUM , CAPSTAN SERVO

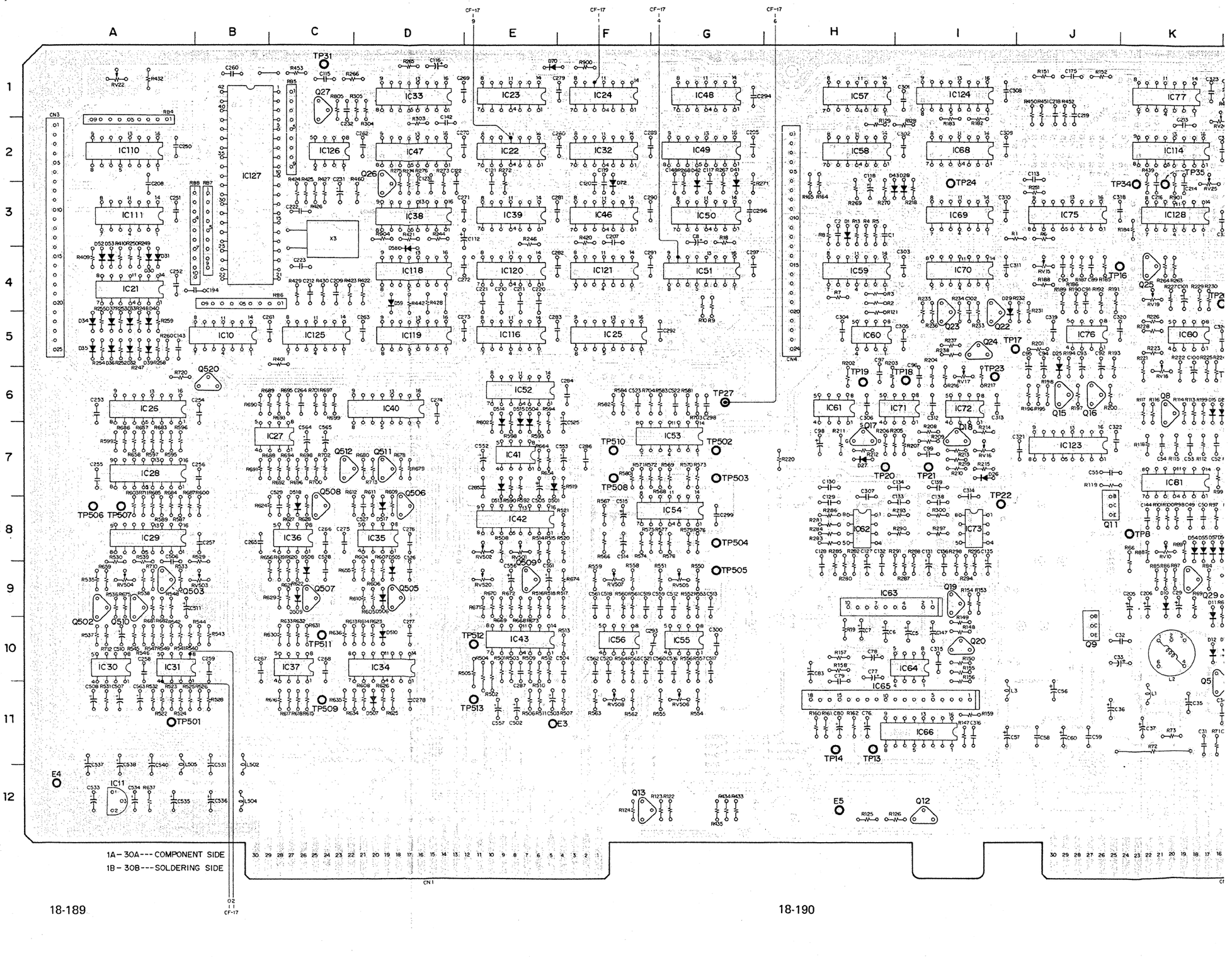
1 - 611 - 520 - 15

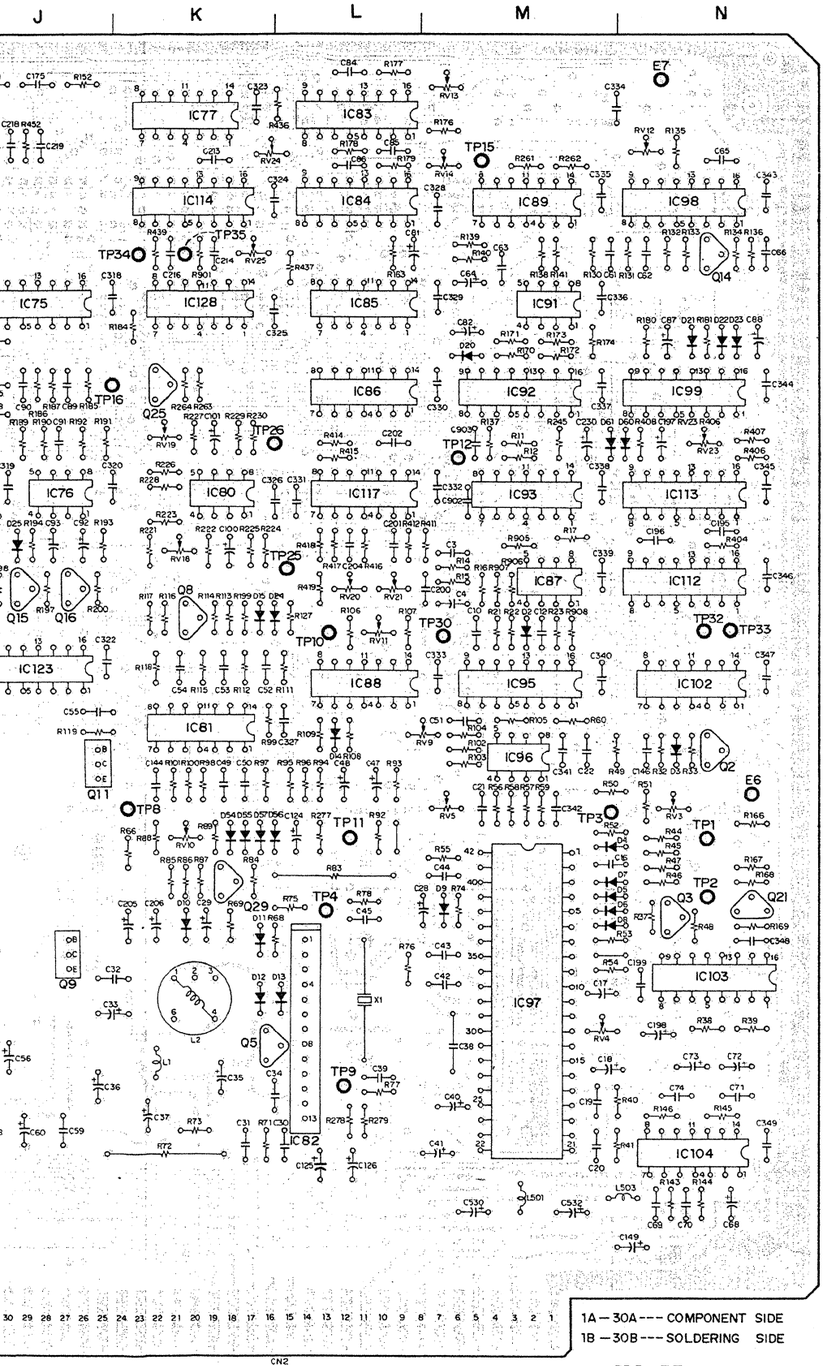
BVW - 40P

BVW - 40S

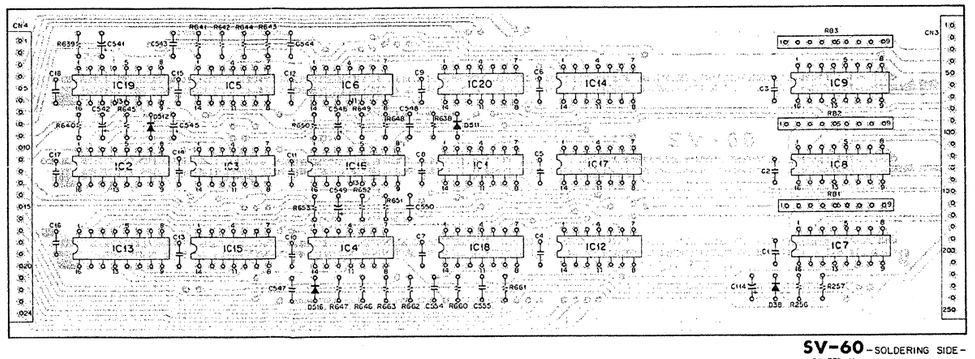
SV-55 (SERVO SYSTEM)
SV-60
CF-17

CN1	D - 12	IC40	D - 6	Q29	K - 9
CN2	L - 12	IC41	E - 7	Q502	A - 9
CN3	A - 2	IC42	E - 8	Q503	A - 9
CN4	H - 3	IC43	E - 10	Q505	D - 9
		IC46	F - 3	Q506	D - 8
D1	H - 3	IC47	D - 2	Q507	C - 9
D2	M - 7	IC48	G - 1	Q508	C - 8
D3	N - 8	IC49	G - 2	Q509	E - 9
D4	N - 9	IC50	G - 3	Q510	A - 9
D5	N - 9	IC51	G - 4	Q511	D - 7
D6	N - 9	IC52	E - 6	Q512	C - 7
D7	N - 9	IC53	G - 7	Q520	B - 6
D8	N - 9	IC54	G - 8		
D9	M - 9	IC55	G - 10	RB4	A - 2
D10	K - 9	IC56	F - 10	RB5	C - 2
D11	K - 10	IC57	H - 1	RB6	B - 4
D12	K - 10	IC58	H - 2	RB7	B - 3
D13	L - 10	IC59	H - 4	RB8	B - 3
D14	L - 8	IC60	H - 5		
D15	K - 6	IC61	H - 6	RV3	N - 8
D20	M - 4	IC62	H - 8	RV4	M - 11
D21	N - 3	IC63	H - 9	RV5	M - 8
D22	N - 3	IC64	I - 10	RV9	M - 7
D23	N - 3	IC65	H - 11	RV10	K - 8
D24	L - 6	IC66	I - 11	RV11	L - 7
D25	J - 6	IC68	I - 2	RV12	N - 1
D26	I - 7	IC69	I - 3	RV13	M - 1
D27	H - 7	IC70	I - 4	RV14	M - 2
D28	I - 3	IC71	I - 6	RV15	J - 4
D29	I - 5	IC72	I - 6	RV16	I - 7
D30	A - 4	IC73	I - 8	RV17	I - 6
D31	A - 4	IC75	J - 3	RV18	K - 6
D32	A - 5	IC76	J - 5	RV19	K - 4
D33	A - 5	IC77	K - 1	RV20	L - 6
D34	A - 5	IC80	K - 5	RV21	L - 6
D35	A - 5	IC81	K - 7	RV22	A - 1
D36	A - 5	IC82	L - 11	RV23	N - 4
D37	A - 5	IC83	L - 1	RV24	K - 2
D39	A - 5	IC84	L - 2	RV25	K - 2
D40	A - 5	IC85	L - 3	RV501	E - 8
D41	G - 3	IC86	L - 4	RV502	E - 8
D42	G - 3	IC87	M - 6	RV503	B - 9
D43	I - 3	IC88	L - 7	RV504	A - 9
D52	A - 4	IC89	M - 2	RV505	G - 9
D53	A - 4	IC91	M - 3	RV506	G - 11
D54	K - 8	IC92	M - 4	RV507	F - 9
D55	K - 8	IC93	M - 5	RV508	F - 11
D56	L - 8	IC95	M - 7	RV520	E - 9
D57	K - 8	IC96	M - 8		
D58	D - 4	IC97	M - 10	TP1	N - 8
D59	D - 4	IC98	N - 2	TP2	N - 9
D60	N - 4	IC99	N - 4	TP3	M - 8
D61	M - 4	IC102	N - 7	TP4	L - 9
D70	E - 1	IC103	N - 10	TP8	K - 8
D72	F - 3	IC104	N - 11	TP9	L - 11
D501	E - 7	IC110	A - 2	TP10	L - 7
D504	E - 7	IC111	A - 3	TP11	L - 8
D505	D - 9	IC112	N - 6	TP12	M - 5
D506	D - 9	IC113	N - 5	TP13	H - 11
D507	D - 11	IC114	K - 2	TP14	H - 11
D508	C - 9	IC115	J - 2	TP15	M - 2
D509	C - 9	IC116	E - 5	TP16	K - 4
D510	D - 10	IC117	L - 5	TP17	J - 5
D513	E - 7	IC118	D - 4	TP18	I - 6
D514	E - 7	IC119	D - 5	TP19	H - 6
D515	E - 7	IC120	E - 4	TP20	H - 7
D517	D - 8	IC121	F - 4	TP21	I - 7
D518	C - 8	IC123	J - 7	TP22	I - 8
		IC124	I - 1	TP23	I - 6
E3	E - 11	IC125	C - 5	TP24	I - 3
E4	A - 12	IC126	C - 2	TP25	L - 6
E5	H - 12	IC127	B - 2	TP26	L - 4
E6	N - 8	IC128	K - 3	TP27	G - 6
E7	N - 1			TP30	M - 7
		Q2	N - 8	TP31	C - 1
IC10	B - 5	Q3	N - 9	TP32	N - 7
IC11	A - 12	Q5	L - 11	TP33	N - 7
IC21	A - 4	Q8	K - 6	TP34	K - 3
IC22	E - 2	Q9	J - 10	TP35	K - 3
IC23	E - 1	Q11	J - 8	TP501	A - 11
IC24	F - 1	Q12	I - 12	TP502	G - 7
IC25	F - 5	Q13	F - 12	TP503	G - 7
IC26	A - 6	Q14	N - 3	TP504	G - 8
IC27	C - 7	Q15	J - 6	TP505	G - 9
IC28	A - 7	Q16	J - 6	TP506	A - 8
IC29	A - 8	Q17	H - 7	TP507	A - 8
IC30	A - 10	Q18	I - 7	TP508	F - 7
IC31	A - 10	Q19	I - 9	TP509	C - 11
IC32	F - 2	Q20	I - 10	TP510	F - 7
IC33	D - 1	Q21	N - 9	TP511	C - 10
IC34	D - 10	Q22	I - 5	TP512	E - 10
IC35	D - 8	Q23	I - 5	TP513	E - 11
IC36	C - 8	Q24	I - 5		
IC37	C - 10	Q25	K - 4	X1	L - 10
IC38	D - 3	Q26	D - 3	X3	C - 3
IC39	E - 3	Q27	C - 1		





SV-55 – SOLDERING SIDE –
1-611-520-16
BVW-40P
BVW-40S



SV-60 – SOLDERING SIDE –
1-611-775-11
BVW-40
BVW-40S
BVW-40S

SV - 55

Ref. No.	Type	Pin No. +5V	+12V	+15V	-5V	-12V	-15V	GND
IC 10	SN71LS37N	11						7
IC 11	NJM78L05A	REFER TO SCHEMATIC						
IC 21	MC1458HCT	11						7
IC 22	TC1071BP	11						7
IC 23	TC1069CBP	14						7
IC 24	TC1073BP	14						7
IC 25	TC1021BP	16						8
IC 26	TC1051BP	16			7			8
IC 27	μPC358C	8						1
IC 28	TC1051BP	16			7			8
IC 29	HD14538BP	16						8
IC 30	μPC358C	8						1
IC 31	NJM2903D	8						1
IC 32	TC1001BP	14						7
IC 33	HD14538BP	16						8
IC 34	μPC339C			8			1	
IC 35	μPC358C			8			1	
IC 36	μPC358C			8			1	
IC 37	NJM1558D-FA			8			1	
IC 38	HD14538BP	16						8
IC 39	TC1069UBP	14						7
IC 10	TC5067BP	16						8
IC 11	μPC1558C		8			4		
IC 12	TC1053BP	16						7, 8
IC 13	μPC324C		4					11
IC 16	TC1081BP	14						7
IC 17	TC1053BP	16						7, 8
IC 18	TC1071BP	14						7
IC 19	TC1053BP	16						7, 8
IC 50	TC1001BP	14						7
IC 51	HD14538BP	16						8
IC 52	TC1013BP	14						7
IC 53	TC1030BP	14						7
IC 54	μPC339C		8					4
IC 55	μPC1558C		8					4
IC 56	μPC1558C		8					4
IC 57	TC1069CBP	14						7
IC 58	TC1069UBP	14						7
IC 59	TC1011BP	14						7
IC 60	μPC1558C			8	4			
IC 61	NJM2903D		8					4
IC 62	μPC358C	8						4
IC 63	BX3915A	REFER TO SCHEMATIC						
IC 64	NJM1558D-D		8					4
IC 65	BX3914	REFER TO SCHEMATIC						
IC 66	TC1053BP		16					7, 8
IC 68	TC1001BP	14						7

SV - 55

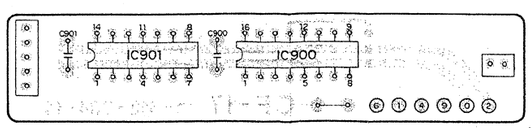
Ref. No.	Type	Pin No. +5V	+12V	+15V	-5V	-12V	-15V	GND
IC 69	TC1030BP	14						7
IC 70	TC1071BP	14						7
IC 71	μPC1558C		8					4
IC 72	μPC358C		8					4
IC 73	μPC358C	8						4
IC 75	TC1030BP	1						8
IC 76	NJM1558D			8	4			
IC 77	TC1081BP	14						7
IC 80	NJM2903D		8					4
IC 81	μPC321C		1					11
IC 82	BX1154	REFER TO SCHEMATIC						
IC 83	HD14538BP	16						8
IC 84	HD14538BP	16						8
IC 85	TC1025BP	14						7
IC 86	TC1069UBP	14						7
IC 87	NJM2903D	8						4
IC 88	TC1066BP	14						7
IC 99	TC1011BP	14						7
IC 91	NJM2903D	8						4
IC 92	TC1539BP	16						8
IC 93	TC1069UBP	14						7
IC 95	HD14538BP	16						8
IC 96	NJM2903D	8						4
IC 97	CX191B	REFER TO SCHEMATIC						
IC 98	HD14538BP	16						8
IC 99	TC1053BP	16						7, 8
IC 102	TC1071BP	14						7
IC 103	TC1053BP		16					7, 8
IC 104	TC1066BP	14						7
IC 110	TC1091BP	16						8
IC 111	TC1069UBP	14						7
IC 112	HD14538BP	16						8
IC 113	MC14016BCP	16						8
IC 114	HD14538BP	16						8
IC 116	TC1013BP	14						7
IC 117	μPC324C	4				11		
IC 118	TC1516BP	16						8
IC 119	TC1516BP	16						8
IC 120	TC1081BP	14						7
IC 121	TC1030BP	14						7
IC 123	TC1033BP	16					7	8
IC 124	TC1053BP	16						7, 8
IC 125	TC1073BP	14						7
IC 126	NJM2903D	8						4
IC 127	MB88501-207L	12						21
IC 128	TC4013BP	14						7

SV - 60

Ref. No.	Type	Pin No. +5V	GND
IC 1	TC1081BP	14	7
IC 2	TC1532BP	16	8
IC 3	TC1081BP	14	7
IC 4	TC1081BP	14	7
IC 5	TC1030BP	14	7
IC 6	TC1071BP	14	7
IC 7	TC1091BP	16	8
IC 8	TC1091BP	16	8
IC 9	TC1091BP	16	8
IC 12	TC1011BP	14	7
IC 13	TC1532BP	16	8
IC 14	TC1073BP	14	7
IC 15	TC1081BP	14	7
IC 16	HD14538BP	16	8
IC 17	TC1069UBP	14	7
IC 18	TC1073BP	14	7
IC 19	HD14538BP	16	8
IC 20	TC1071BP	14	7

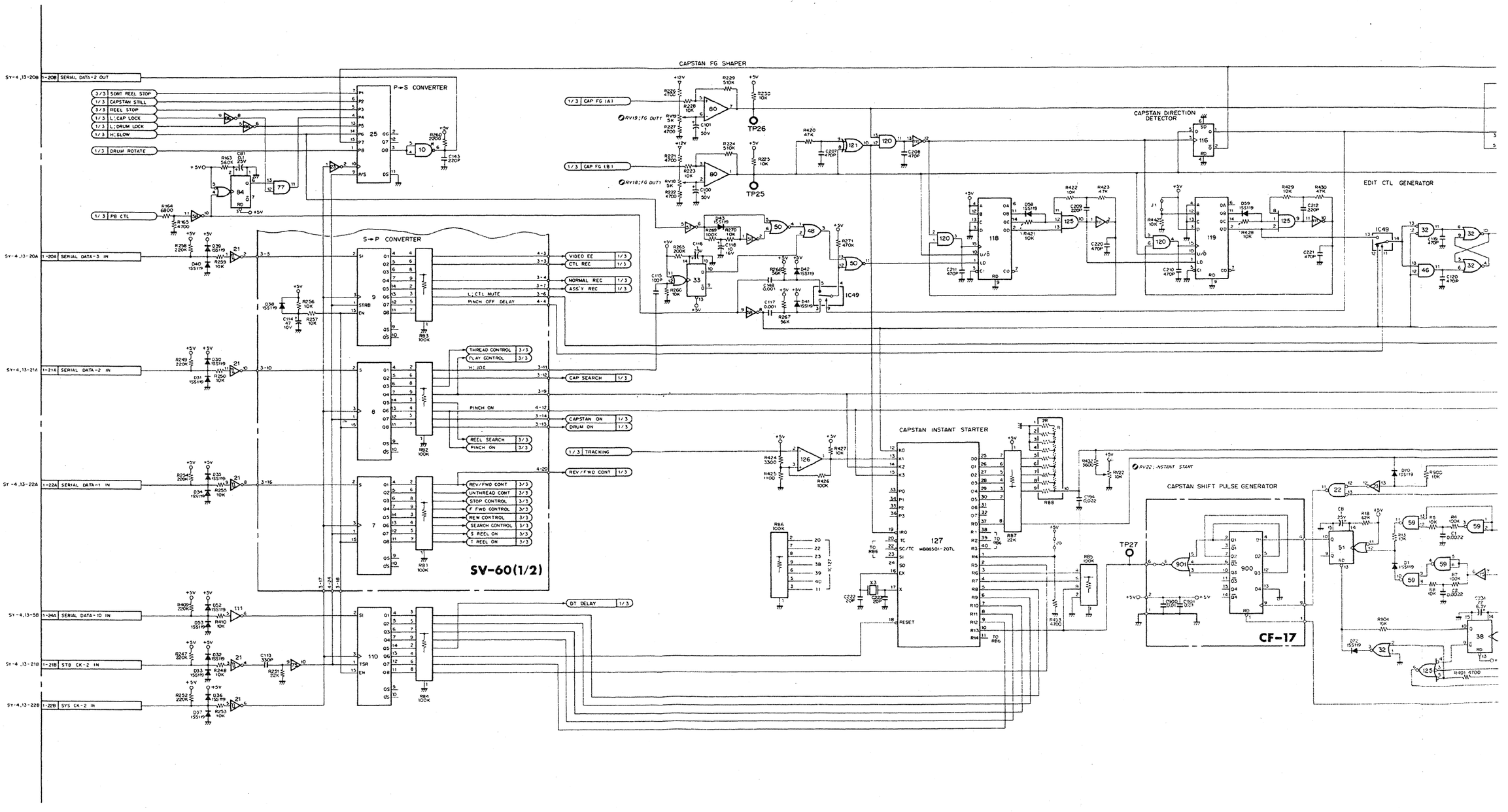
CF - 17

Ref. No.	Type	Pin No. +5V	GND
IC 900	TC10175BP	16	8
IC 901	TC1073BP	14	7

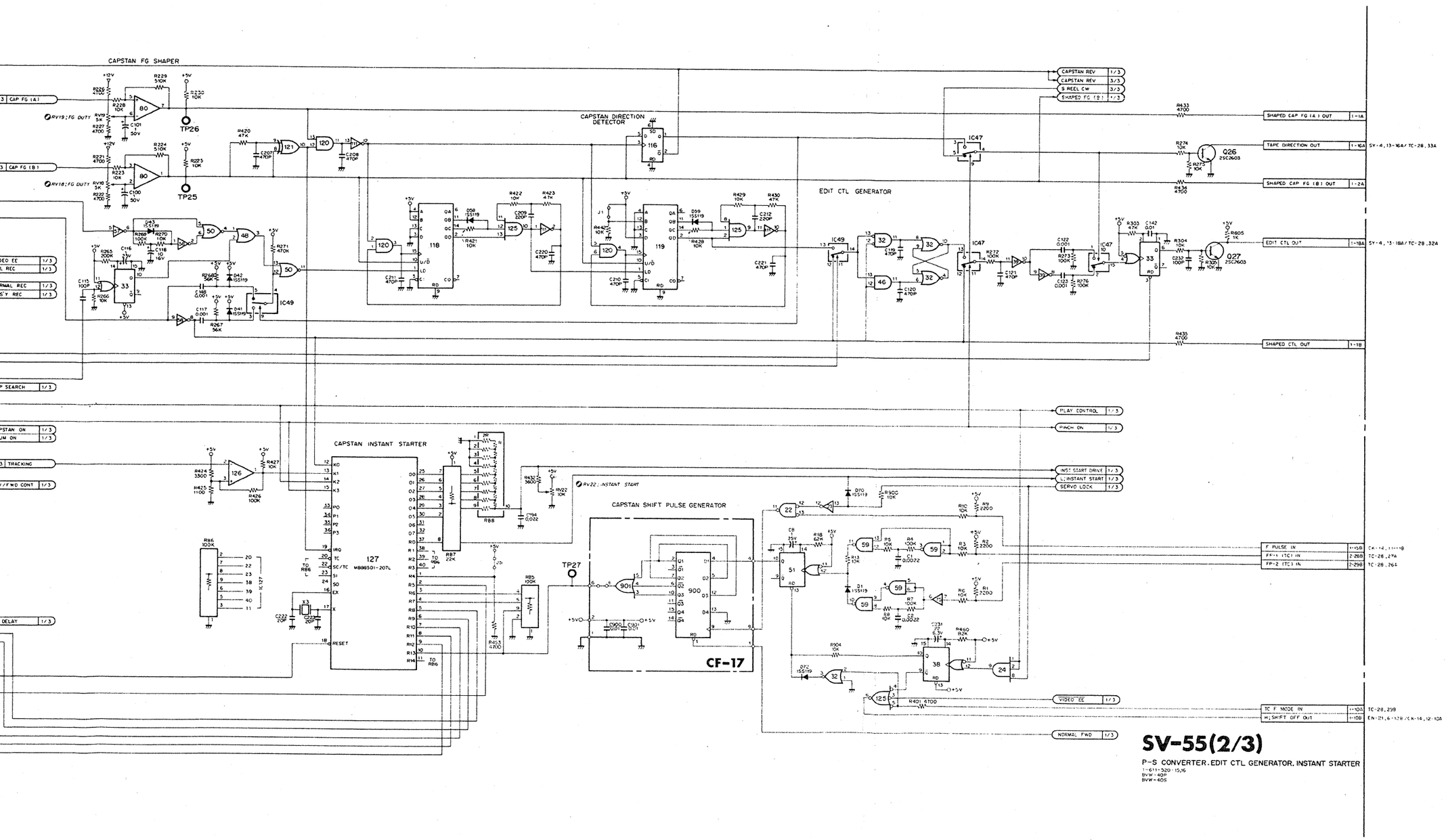


CF-17 – COMPONENT SIDE –
1-612-984-11
BVW-40P
BVW-40S

SV-55 (2/3) (SERVO SYSTEM)
SV-60 (1/2)
CF-17



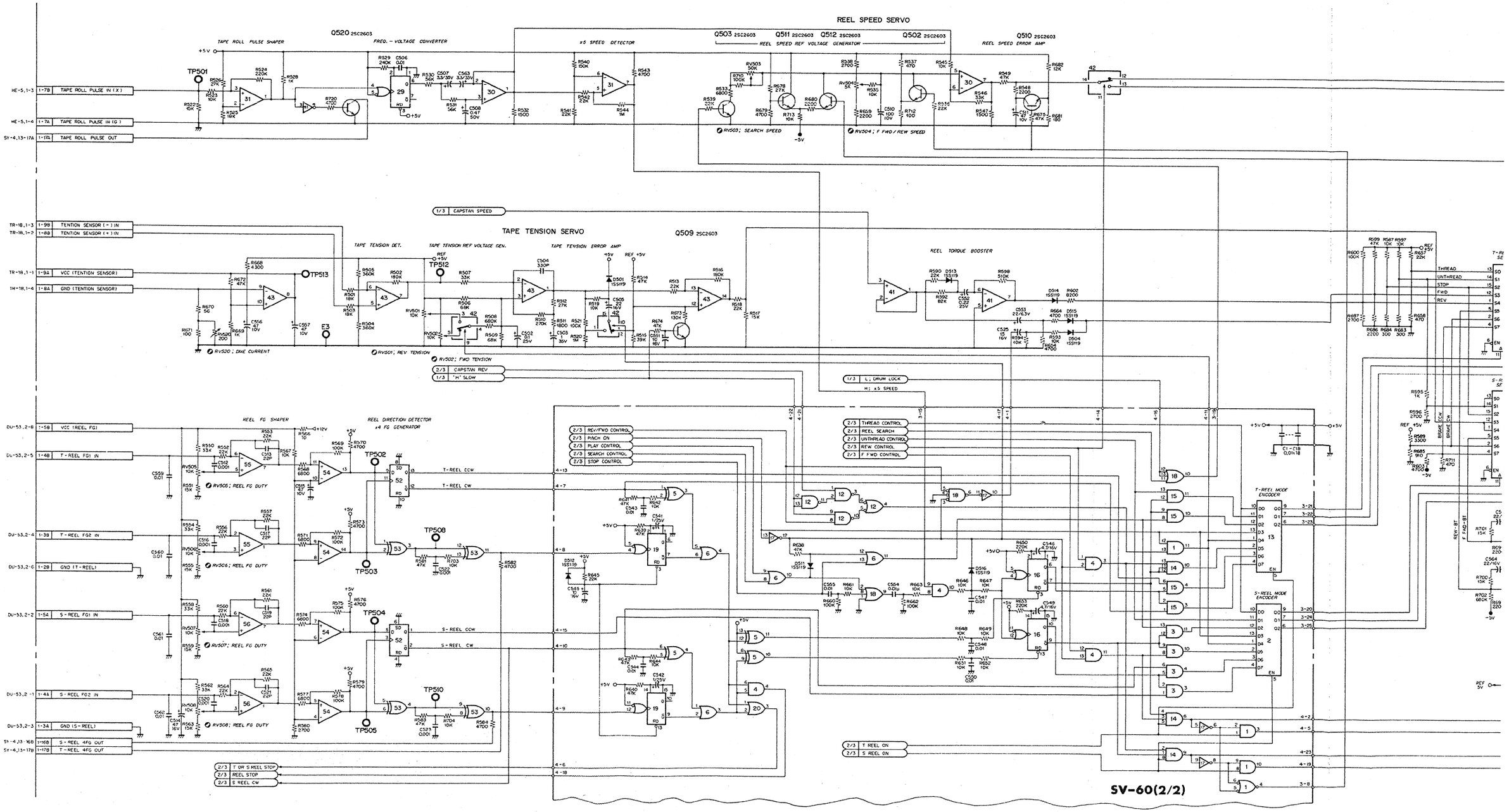
SV-55 (2/3), SV-60 (1/2), CF-17



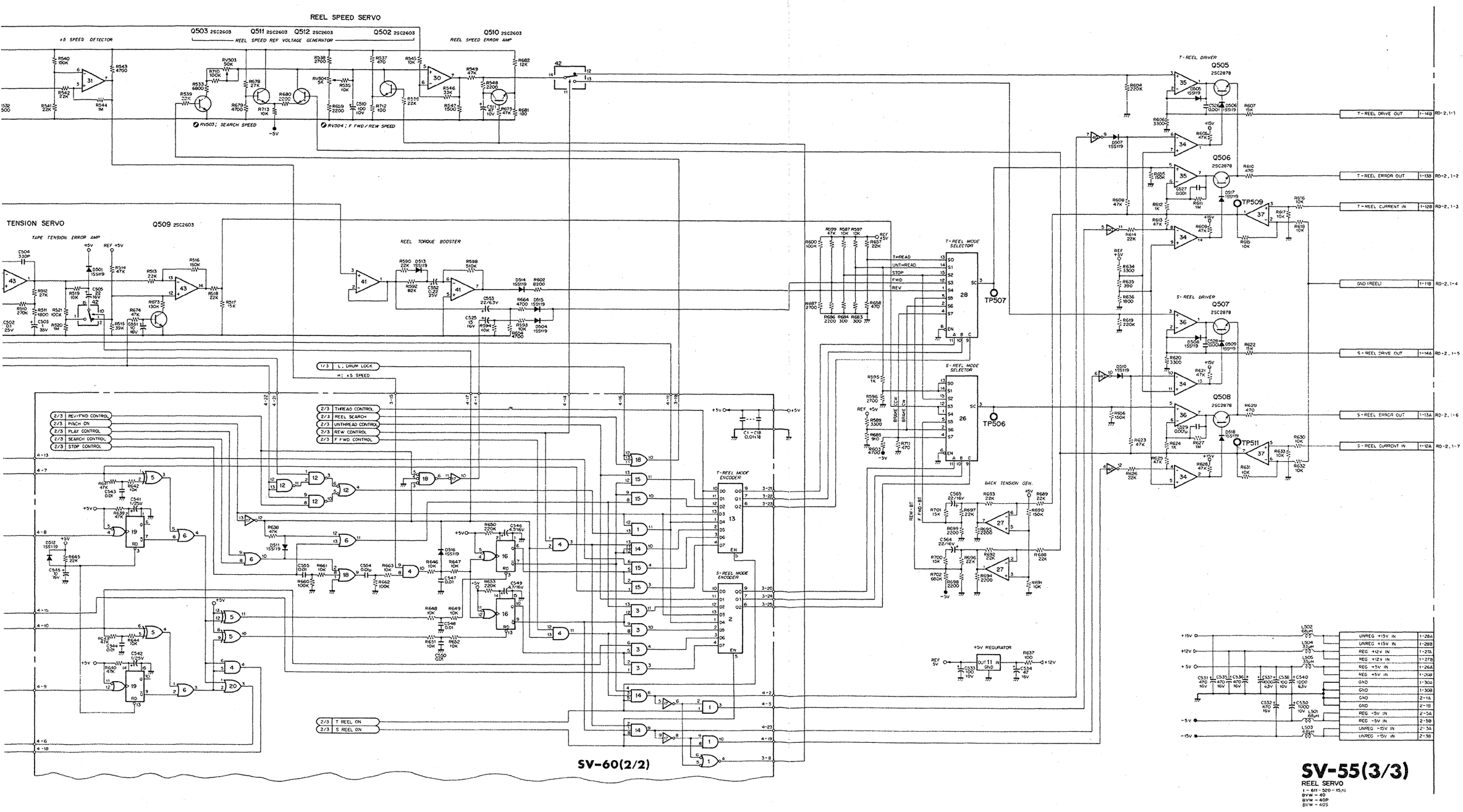
SV-55 (3/3), SV-60 (2/2)

SV-55 (3/3), SV-60 (2/2)

SV-55 (3/3) (SERVO SYSTEM)
SV-60 (2/2)

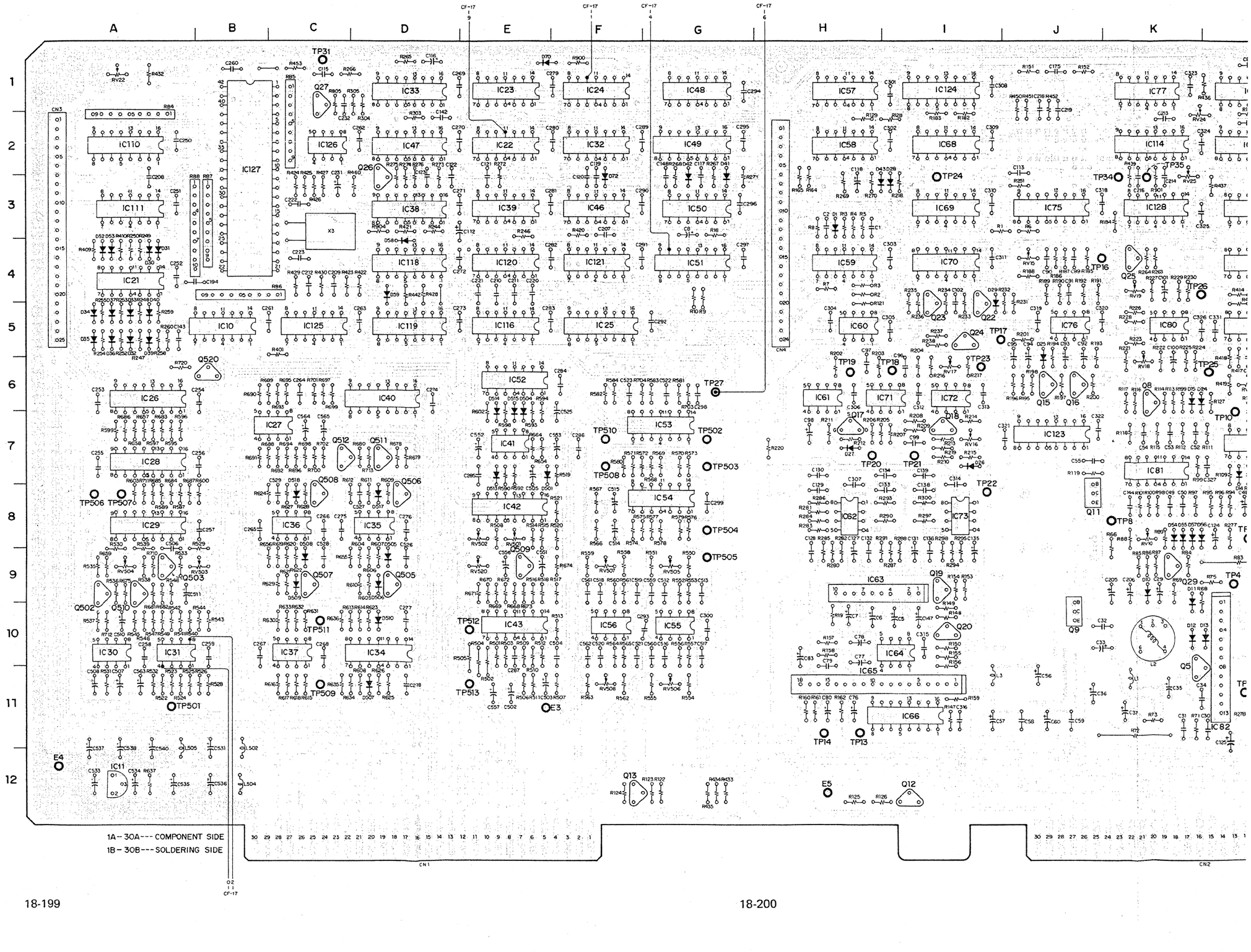


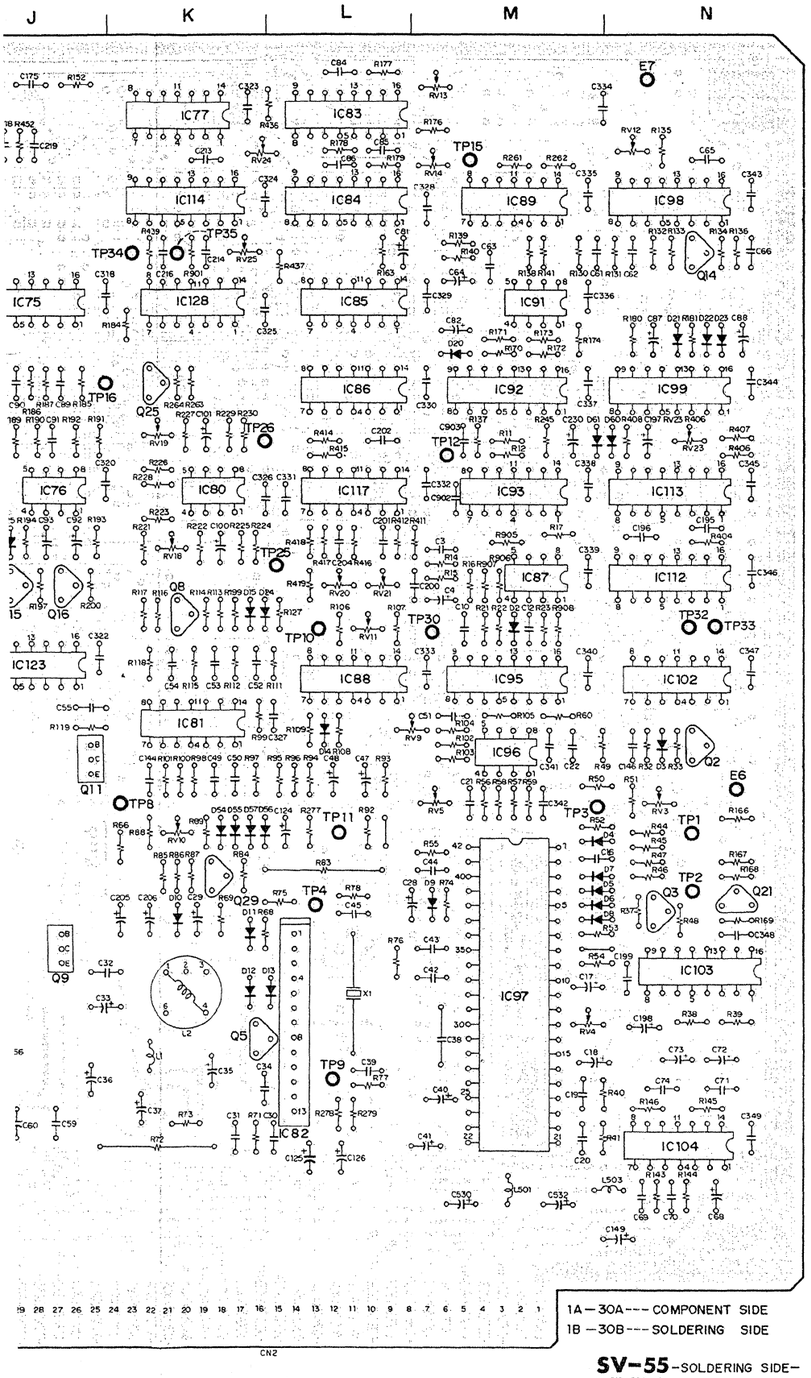
SV-55 (3/3), SV-60 (2/2)

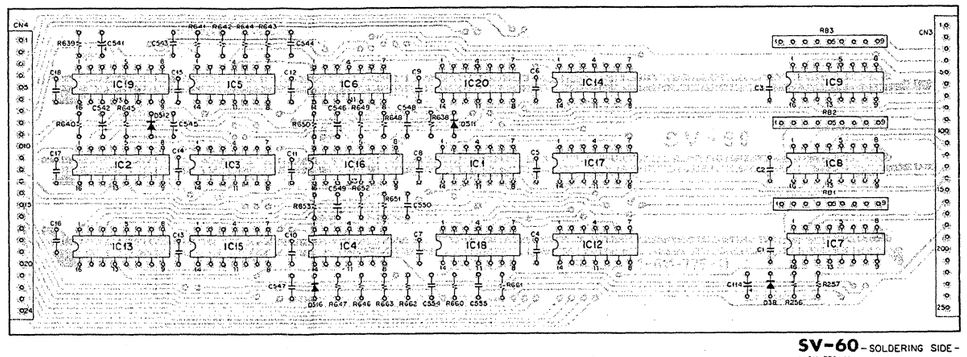


SV-55 (SERVO SYSTEM)
SV-60

CN1	D - 12	IC40	D - 6	Q29	K - 9
CN2	L - 12	IC41	E - 7	Q502	A - 9
CN3	A - 2	IC42	E - 8	Q503	A - 9
CN4	H - 3	IC43	E - 10	Q505	D - 9
		IC46	F - 3	Q506	D - 8
D1	H - 8	IC47	D - 2	Q507	C - 9
D2	M - 7	IC48	G - 1	Q508	C - 8
D3	N - 8	IC49	G - 2	Q509	E - 9
D4	N - 9	IC50	G - 3	Q510	A - 9
D5	N - 9	IC51	G - 4	Q511	D - 7
D6	N - 9	IC52	E - 6	Q512	C - 7
D7	N - 9	IC53	G - 7	Q520	B - 6
D8	N - 9	IC54	G - 8		
D9	M - 9	IC55	G - 10	RB1	A - 2
D10	K - 9	IC56	F - 10	RB5	C - 2
D11	K - 10	IC57	H - 1	RB6	B - 4
D12	K - 10	IC58	H - 2	RB7	B - 3
D13	L - 10	IC59	H - 4	RB8	B - 3
D14	L - 8	IC60	H - 5		
D15	K - 6	IC61	H - 6	RV3	N - 8
D20	M - 4	IC62	H - 8	RV4	M - 11
D21	N - 3	IC63	H - 9	RV5	M - 8
D22	N - 3	IC64	I - 10	RV9	M - 7
D23	N - 3	IC65	H - 11	RV10	K - 8
D24	L - 6	IC66	I - 11	RV11	L - 7
D25	J - 6	IC68	I - 2	RV12	N - 1
D26	I - 7	IC69	I - 3	RV13	M - 1
D27	H - 7	IC70	I - 4	RV14	M - 2
D28	I - 3	IC71	I - 6	RV15	J - 4
D29	I - 5	IC72	I - 6	RV16	I - 7
D30	A - 4	IC73	I - 8	RV17	I - 6
D31	A - 4	IC75	J - 3	RV18	K - 6
D32	A - 5	IC76	J - 5	RV19	K - 4
D33	A - 5	IC77	K - 1	RV20	L - 6
D34	A - 5	IC80	K - 5	RV21	L - 6
D35	A - 5	IC81	K - 7	RV22	A - 1
D36	A - 5	IC82	L - 11	RV23	N - 4
D37	A - 5	IC83	L - 1	RV24	K - 2
D39	A - 5	IC84	L - 2	RV25	K - 2
D40	A - 5	IC85	L - 3	RV501	E - 8
D41	G - 3	IC86	L - 4	RV502	E - 8
D42	G - 3	IC87	M - 6	RV503	B - 9
D43	I - 3	IC88	L - 7	RV504	A - 9
D52	A - 4	IC89	M - 2	RV505	G - 9
D53	A - 4	IC91	M - 3	RV506	G - 11
D54	K - 8	IC92	M - 4	RV507	F - 9
D55	K - 8	IC93	M - 5	RV508	F - 11
D56	L - 8	IC95	M - 7	RV520	E - 9
D57	K - 8	IC96	M - 8		
D58	D - 4	IC97	M - 10	TP1	N - 8
D59	D - 4	IC98	N - 2	TP2	N - 9
D60	N - 4	IC99	N - 4	TP3	M - 8
D61	M - 4	IC102	N - 7	TP4	L - 9
D70	E - 1	IC103	N - 10	TP8	K - 8
D72	F - 3	IC104	N - 11	TP9	L - 11
D501	E - 7	IC110	A - 2	TP10	L - 7
D504	E - 7	IC111	A - 3	TP11	L - 8
D505	D - 9	IC112	N - 6	TP12	M - 5
D506	D - 9	IC113	N - 5	TP13	H - 11
D507	D - 11	IC114	K - 2	TP14	H - 11
D508	C - 9	IC115	J - 2	TP15	M - 2
D509	C - 9	IC116	E - 5	TP16	K - 4
D510	D - 10	IC117	L - 5	TP17	J - 5
D513	E - 7	IC118	D - 4	TP18	I - 6
D514	E - 7	IC119	D - 5	TP19	H - 6
D515	E - 7	IC120	E - 4	TP20	H - 7
D517	D - 8	IC121	F - 4	TP21	I - 7
D518	C - 8	IC123	J - 7	TP22	I - 8
		IC124	I - 1	TP23	I - 3
E3	E - 11	IC125	C - 5	TP24	I - 6
E4	A - 12	IC126	C - 2	TP25	L - 6
E5	H - 12	IC127	B - 2	TP26	L - 4
E6	N - 8	IC128	K - 3	TP27	G - 6
E7	N - 1			TP30	M - 7
		Q2	N - 8	TP31	C - 1
IC10	B - 5	Q8	N - 9	TP32	N - 7
IC11	A - 12	Q5	L - 11	TP33	N - 7
IC21	A - 4	Q6	K - 6	TP34	K - 3
IC22	E - 2	Q9	J - 10	TP35	K - 3
IC23	E - 1	Q11	J - 8	TP501	A - 11
IC24	F - 1	Q12	I - 12	TP502	G - 7
IC25	F - 5	Q13	F - 12	TP503	G - 7
IC26	A - 6	Q14	N - 3	TP504	G - 8
IC27	C - 7	Q15	J - 6	TP505	G - 9
IC28	A - 7	Q16	J - 6	TP506	A - 8
IC29	A - 8	Q17	H - 7	TP507	A - 8
IC30	A - 10	Q18	I - 7	TP508	F - 7
IC31	A - 10	Q19	I - 9	TP509	C - 11
IC32	F - 2	Q20	I - 10	TP510	F - 7
IC33	D - 1	Q21	N - 9	TP511	C - 10
IC34	D - 10	Q22	I - 5	TP512	E - 10
IC35	D - 8	Q23	I - 5	TP513	E - 11
IC36	C - 8	Q24	I - 5		
IC37	C - 10	Q25	K - 4	X1	L - 10
IC38	D - 3	Q26	D - 3	X3	C - 3
IC39	E - 3	Q27	C - 1		







SV - 55

Ref. No.	Type	Pin No. +5V	+12V	+15V	-5V	-12V	-15V	GND
IC 10	SN71LS37N	11						7
IC 11	NJM78L05A	REFER TO SCHEMATIC						
IC 21	MC1558BCP	11						7
IC 22	TC1071BP	11						7
IC 23	TC1069CBP	11						7
IC 24	TC1073BP	11						7
IC 25	TC1021BP	16						8
IC 26	TC1051BP	16			7			8
IC 27	μPC358C	8						1
IC 28	TC1051BP	16			7			8
IC 29	HD11538BP	16						8
IC 30	μPC358C	8						1
IC 31	NJM12903D	8						1
IC 32	TC1001BP	11						7
IC 33	HD11538BP	16						8
IC 34	μPC339C			8			1	
IC 35	μPC358C			8			1	
IC 36	μPC358C			8			1	
IC 37	NJM1558D-FA			8			1	
IC 38	HD11538BP	16						8
IC 39	TC1069LBP	11						7
IC 40	TC5007BP	16						8
IC 11	μPC1558C		8			1		
IC 12	TC1053BP	16						7, 8
IC 13	μPC324C		1					11
IC 16	TC1051BP	11						7
IC 17	TC1053BP	16						7, 8
IC 18	TC1071BP	11						7
IC 19	TC1053BP	16						7, 8
IC 50	TC1001BP	14						7
IC 51	HD11538BP	16						8
IC 52	TC1013BP	11						7
IC 53	TC1030BP	14						7
IC 54	μPC339C		8					4
IC 55	μPC1558C		8					4
IC 56	μPC1558C		8					4
IC 57	TC1069LBP	14						7
IC 58	TC1069LBP	14						7
IC 59	TC1011BP	14						7
IC 60	μPC1558C			8	4			
IC 61	NJM12903D		8					4
IC 62	μPC358C	8						4
IC 63	BX3915-A	REFER TO SCHEMATIC						
IC 64	NJM4558D		8					4
IC 65	BX3914	REFER TO SCHEMATIC						
IC 66	TC1053BP		16					7, 8
IC 68	TC1001BP	14						7

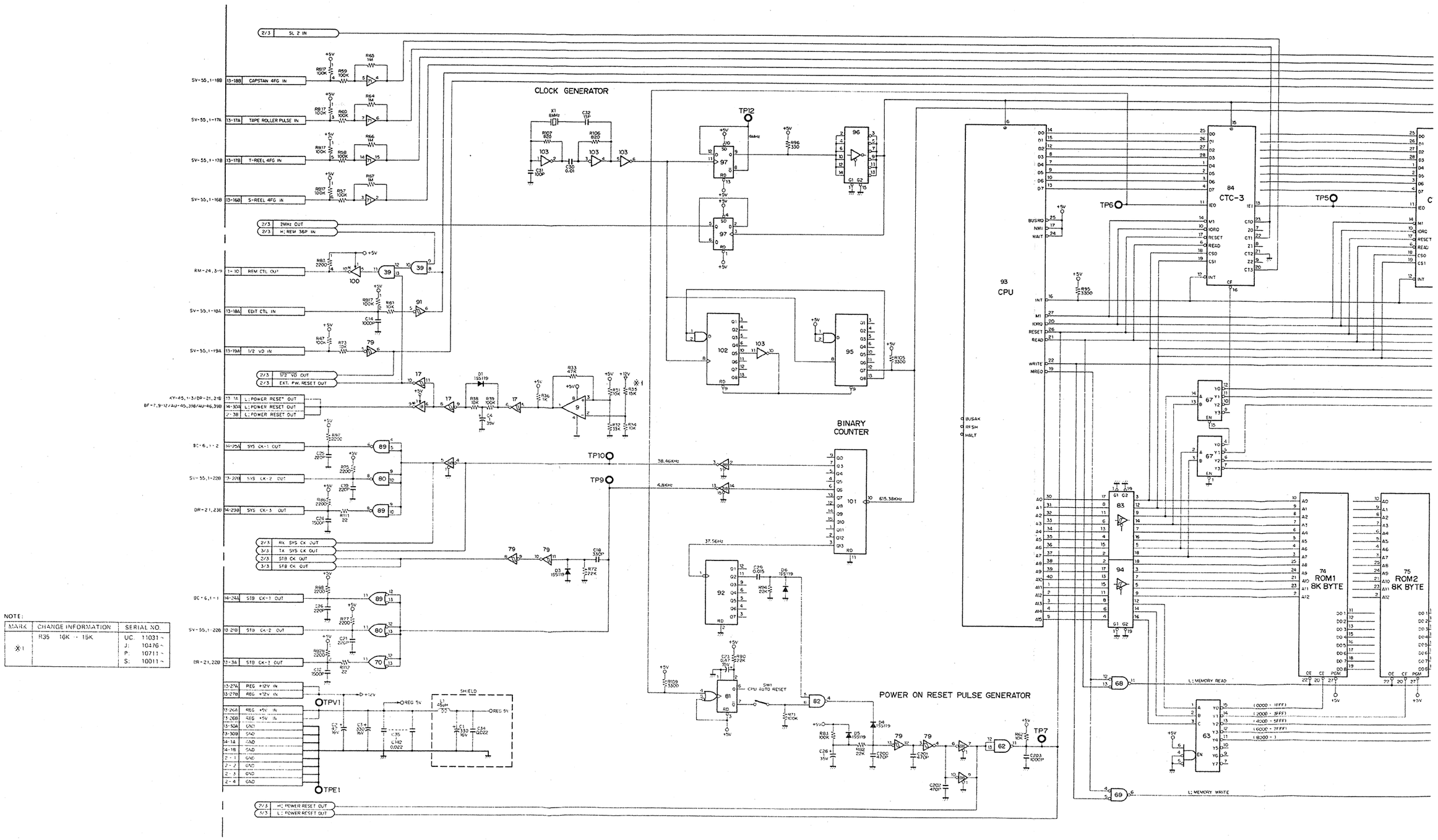
SV - 55

Ref. No.	Type	Pin No. +5V	+12V	+15V	-5V	-12V	-15V	GND
IC 69	TC1030BP	11						7
IC 70	TC1071BP	11						7
IC 71	μPC1558C		8					4
IC 72	μPC358C		8					4
IC 73	μPC358C	8						4
IC 75	TC1053BP	1						8
IC 76	NJM1558D			8	4			
IC 77	TC1051BP	11						7
IC 80	NJM12903D		8					4
IC 81	μPC321C		1					11
IC 82	BX1154	REFER TO SCHEMATIC						
IC 83	HD11538BP	16						8
IC 84	HD11538BP	16						8
IC 85	TC1022BP	11						7
IC 86	TC1069CBP	11						7
IC 87	NJM12903D	8						4
IC 88	TC1006BP	11						7
IC 89	TC1011BP	11						7
IC 91	NJM12903D	8						4
IC 92	TC1539BP	16						8
IC 93	TC1069LBP	11						7
IC 95	HD14538BP	16						8
IC 96	NJM12903D	8						4
IC 97	CX191B	REFER TO SCHEMATIC						
IC 98	HD14538BP	16						8
IC 99	TC1053BP	16						7, 8
IC 102	TC1071BP	11						7
IC 103	TC1053BP		16					7, 8
IC 104	TC1006BP	14						7
IC 109	TC4049BF	16						8
IC 111	TC1069CBP	11						7
IC 112	HD14538BP	16						8
IC 113	MC14046BCP	16						8
IC 114	HD14538BP	16						8
IC 116	TC1013BP	11						7
IC 117	μPC324C	4			11			
IC 118	TC4516BP	16						8
IC 119	TC4516BP	16						8
IC 120	TC1031BP	11						7
IC 121	TC1030BP	11						7
IC 123	TC1053BP	16				7		8
IC 124	TC1053BP	16						7, 8
IC 125	TC1073BP	14						7
IC 126	NJM12903D	8						4
IC 127	MB88301-207L	42						21
IC 128	TC1013BP	14						7

SV - 60

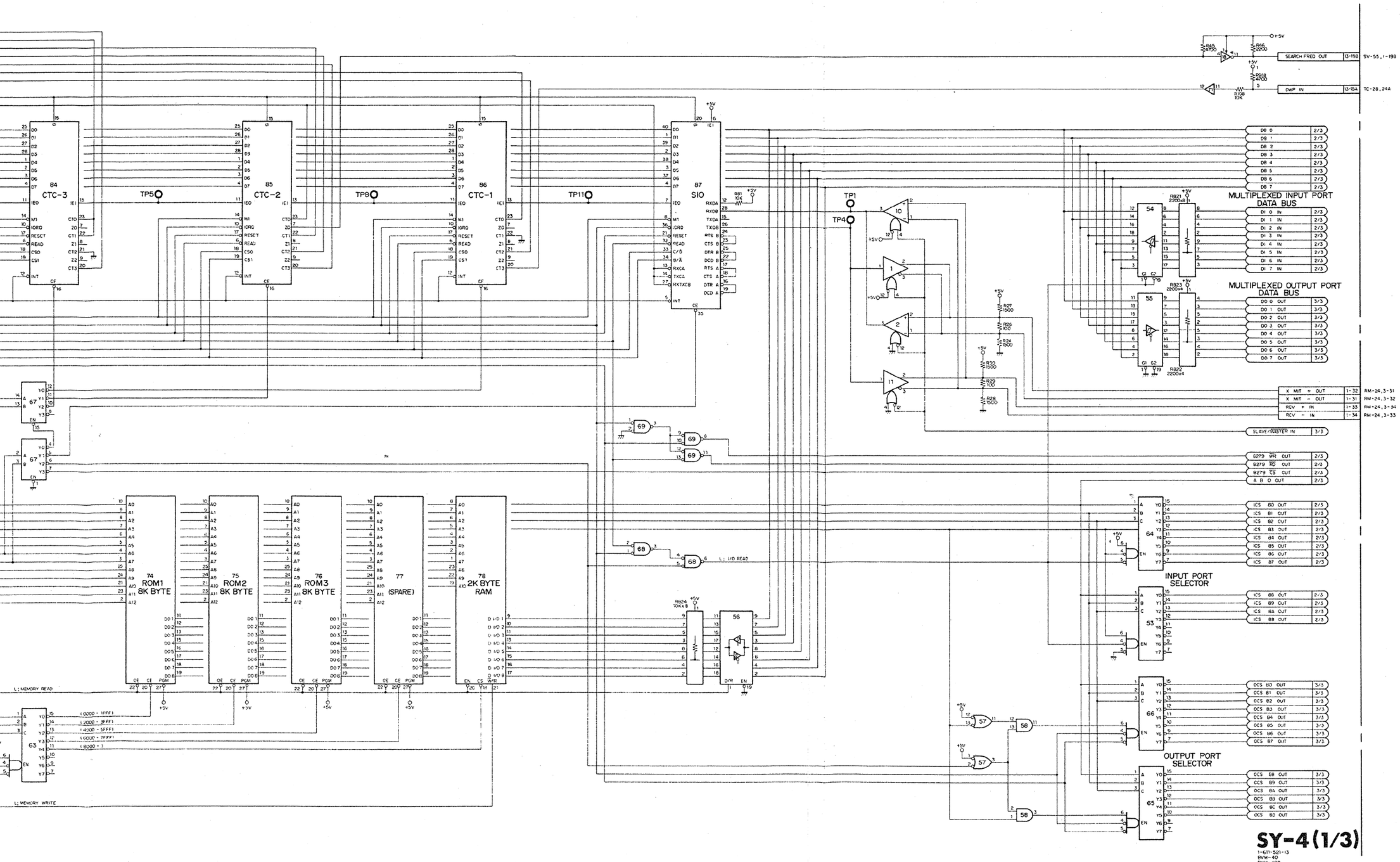
Ref. No.	Type	Pin No. +5V	GND
IC 1	TC1081BP	11	7
IC 2	TC1532BP	16	8
IC 3	TC1081BP	11	7
IC 4	TC1081BP	11	7
IC 5	TC1030BP	11	7
IC 6	TC1071BP	11	7
IC 7	TC1091BF	16	8
IC 8	TC1091BP	16	8
IC 9	TC1091BF	16	8
IC 12	TC4011BP	11	7
IC 13	TC1532BP	16	8
IC 14	TC1073BP	11	7
IC 15	TC1081BP	11	7
IC 16	HD11538BP	16	8
IC 17	TC1069LBP	11	7
IC 18	TC1073BP	11	7
IC 19	HD11538BP	16	8
IC 20	TC1071BP	11	7

SY-4 (1/3) (SYSTEM CONTROL)



NOTE:

MARK	CHANGE INFORMATION	SERIAL NO.
X-1	R35 16K → 15K	UC. 11031 ~ J: 10476 ~ P: 10711 ~ S: 10011 ~

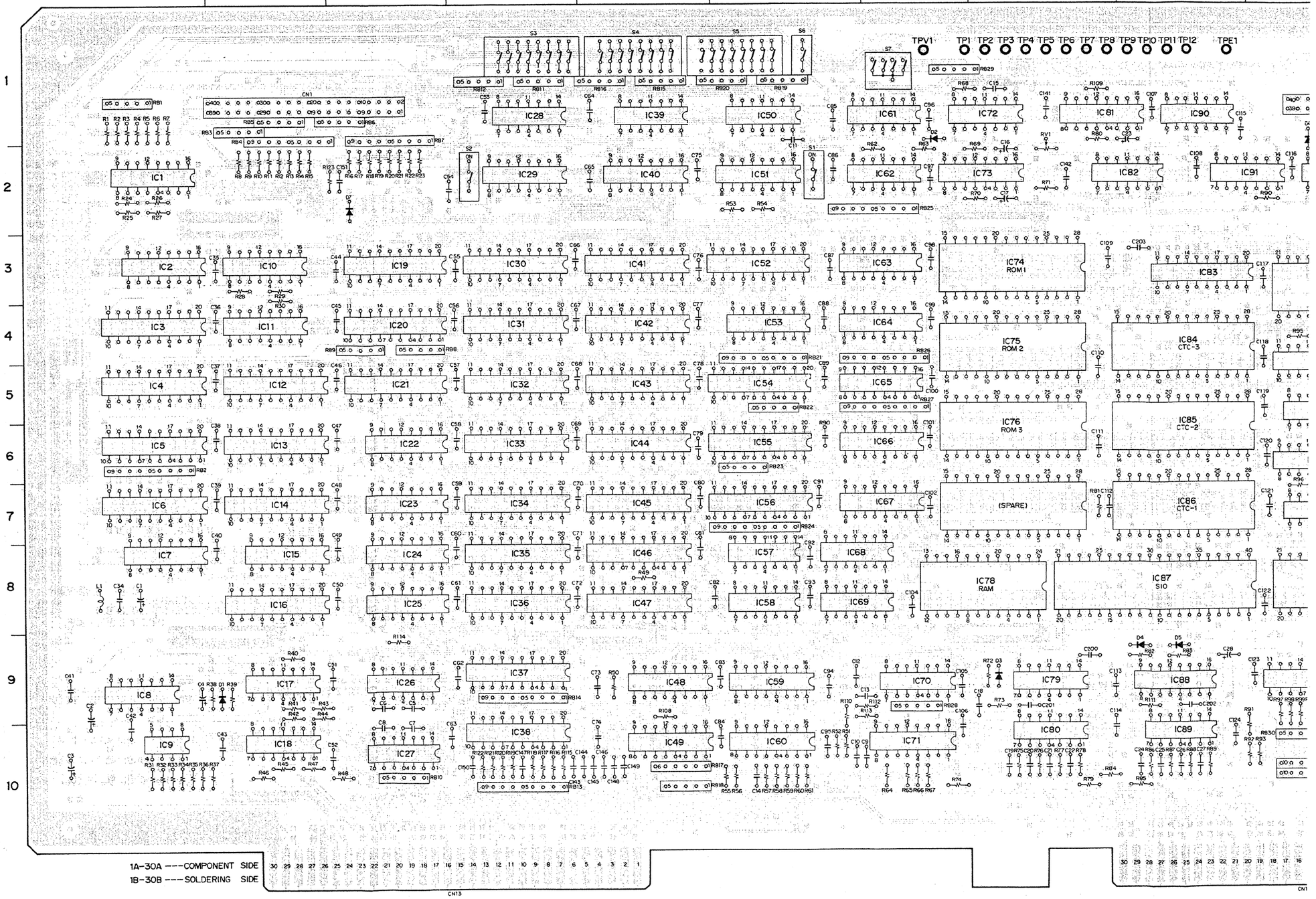


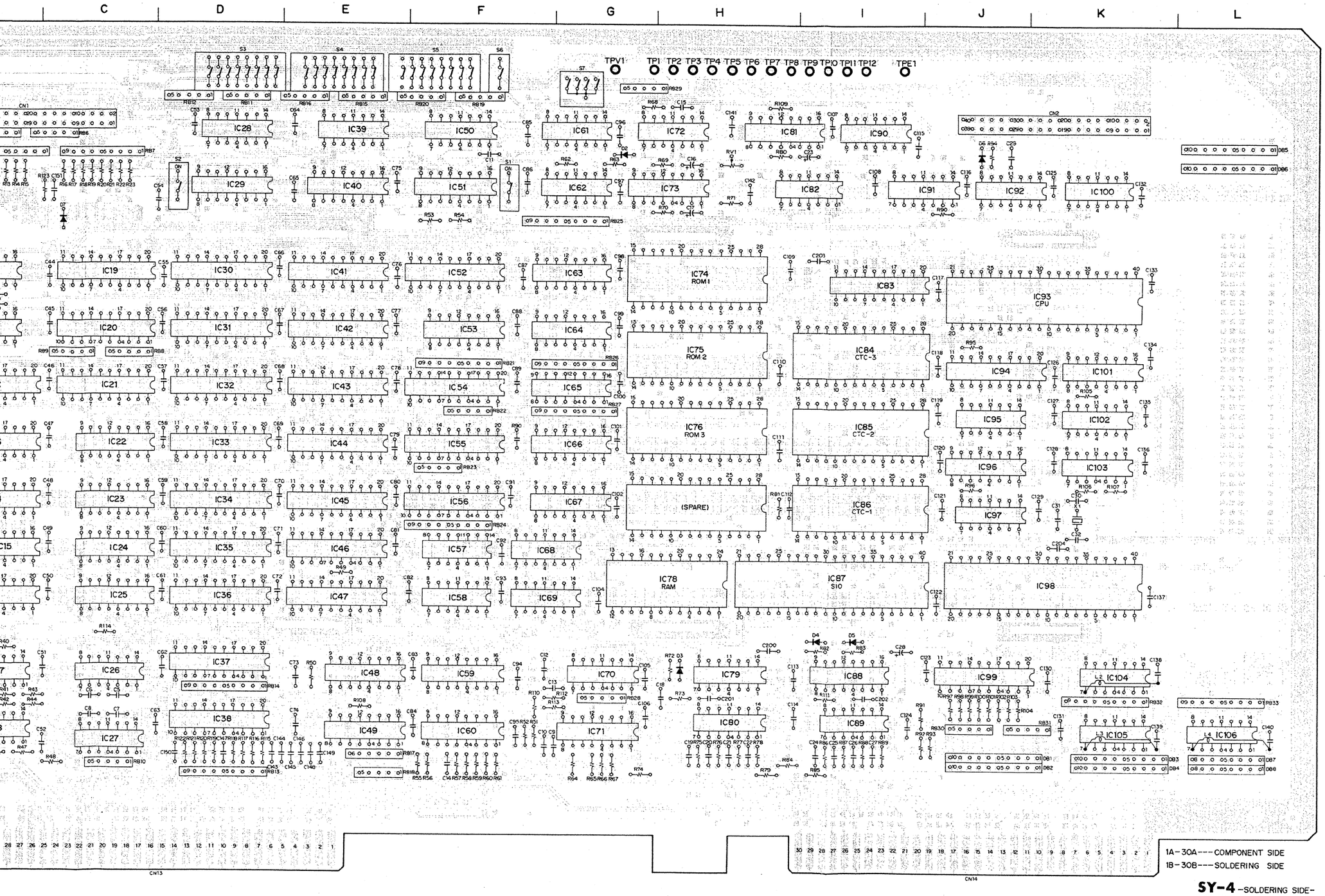
SY-4 (1/3)

1-611-521-13
BVM-40
BVM-40P
DVM-40S

SY-4 (SYSTEM CONTROL)

Ref. No.	Type	Pin No. +5V	Pin No. GND	Ref. No.	Type	Pin No. +5V	Pin No. GND
IC 1	AM26LS31PC	16	8	IC 54	SN74LS244N	20	10
IC 2	AM26LS32PC	16	8	IC 55	SN74LS244N	20	10
IC 3	TC40H240P	20	10	IC 56	SN74LS245N	20	10
IC 4	SN74LS244N	20	10	IC 57	SN74LS00N	14	7
IC 5	SN74LS244N	20	10	IC 58	SN74LS08N	14	7
IC 6	SN74LS244N	20	10	IC 59	TC4021BP	16	8
IC 7	MC14094BCP	16	8	IC 60	TC4021BP	16	8
IC 8	SN74LS32N	14	7	IC 61	M54529AP	14	7
IC 9	NJM2903D	8	4	IC 62	SN74LS37N	14	7
IC 10	AM26LS32PC	16	8	IC 63	SN74LS138N	16	8
IC 11	AM26LS31PC	16	8	IC 64	SN74LS138N	16	8
IC 12	TC40H240P	20	10	IC 65	SN74LS138N	16	8
IC 13	SN74LS244N	20	10	IC 66	SN74LS138N	16	8
IC 14	SN74LS244N	20	10	IC 67	SN74LS139N	16	8
IC 15	MC14094BCP	16	8	IC 68	SN74LS32N	14	7
IC 16	SN74LS240N	20	10	IC 69	SN74LS32N	14	7
IC 17	MC14584BCP	14	7	IC 70	SN74LS37N	14	7
IC 18	M54529AP	14	7	IC 71	TC4050BP	1	8
IC 19	TC40H240P	20	10	IC 72	TC4073BP	14	7
IC 20	SN74LS244N	20	10	IC 73	MC14538BCP	16	8
IC 21	SN74LS244N	20	10	IC 74	MBM2764-25	28	14
IC 22	TC4021BP	16	8	IC 75	MBM2764-25	28	14
IC 23	TC4021BP	16	8	IC 76	MBM2764-25	28	14
IC 24	TC4021BP	16	8	IC 77	MBM2764-25	28	14
IC 25	TC4021BP	16	8	IC 78	MSM2128-15RS	24	12
IC 26	SN74LS37N	14	7	IC 79	MC14584BCP	14	7
IC 27	M54529AP	14	7	IC 80	SN74LS37N	14	7
IC 28	M54529AP	14	7	IC 81	MC14538BCP	16	8
IC 29	TC4021BP	16	8	IC 82	TC4011BP	14	7
IC 30	TC40H273P	20	10	IC 83	SN74LS244N	20	10
IC 31	TC40H273P	20	10	IC 84	LH0082A	24	5
IC 32	TC40H273P	20	10	IC 85	LH0082A	24	5
IC 33	TC40H273P	20	10	IC 86	LH0082A	24	5
IC 34	TC40H273P	20	10	IC 87	LH0084A	9	31
IC 35	TC40H273P	20	10	IC 88	TC40H368P	16	8
IC 36	TC40H273P	20	10	IC 89	SN74LS37N	14	7
IC 37	SN74LS240N	20	10	IC 90	TC4013BP	14	7
IC 38	SN74LS240N	20	10	IC 91	MC14584BCP	14	7
IC 39	TC4081BP	14	7	IC 92	TC4024BP	14	7
IC 40	TC4021BP	16	8	IC 93	LH0080A	11	29
IC 41	TC40H273P	20	10	IC 94	SN74LS244N	20	10
IC 42	TC40H273P	20	10	IC 95	SN74LS164N	14	7
IC 43	TC40H273P	20	10	IC 96	TC40H368P	16	8
IC 44	TC40H273P	20	10	IC 97	SN74S74N	14	7
IC 45	TC40H273P	20	10	IC 98	μPD8279C-5	40	20
IC 46	TC40H273P	20	10	IC 99	TC40H244P	20	10
IC 47	TC40H273P	20	10	IC100	M54529AP	14	7
IC 48	TC4021BP	16	8	IC101	TC4020BP	16	8
IC 49	TC4021BP	16	8	IC102	SN74LS164N	14	7
IC 50	M54529AP	14	7	IC103	SN74S04N	14	7
IC 51	MC14094BCP	16	8	IC104	M54529AP	14	7
IC 52	SN74LS244N	20	10	IC105	M54529AP	14	7
IC 53	SN74LS138N	16	8	IC106	M54529AP	14	7





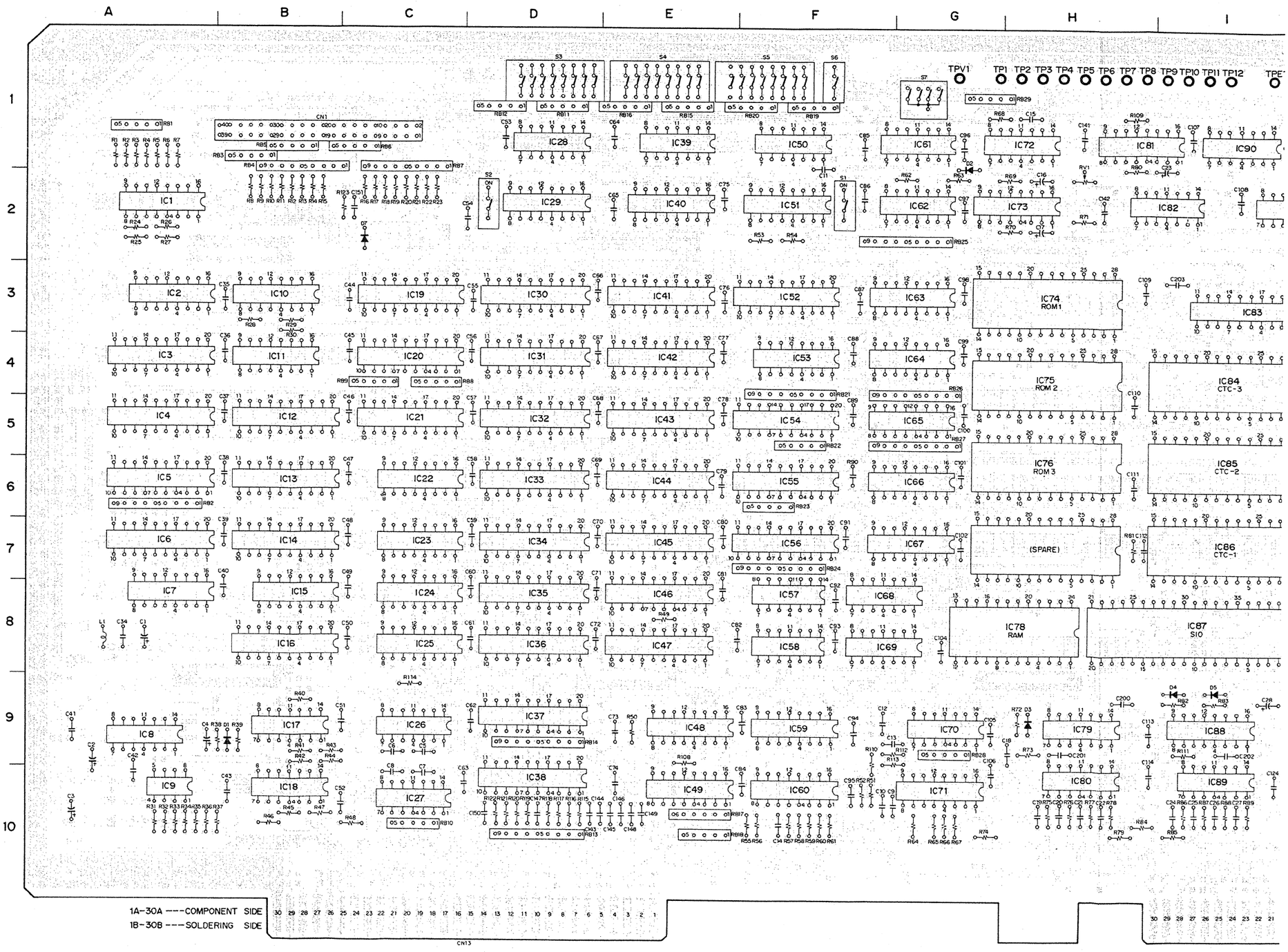
CN1	B - 1	IC80	H - 10
CN2	K - 1	IC81	H - 1
CN13	C - 10	IC82	I - 2
CN14	J - 10	IC83	I - 3
		IC84	I - 4
D1	B - 9	IC85	I - 6
D2	G - 2	IC86	I - 7
D3	H - 9	IC87	I - 8
D4	I - 9	IC88	I - 9
D5	I - 9	IC89	I - 10
D6	J - 2	IC90	I - 1
D7	C - 2	IC91	J - 2
		IC92	J - 2
DB1	J - 10	IC93	K - 3
DB2	J - 10	IC94	J - 4
DB3	K - 10	IC95	J - 5
DB4	K - 10	IC96	J - 6
DB5	L - 1	IC97	J - 7
DB6	L - 2	IC98	K - 8
DB7	L - 10	IC99	J - 9
DB8	L - 10	IC100	K - 2
		IC101	K - 4
IC1	A - 2	IC102	K - 5
IC2	A - 3	IC103	K - 6
IC3	A - 4	IC104	K - 9
IC4	A - 5	IC105	K - 10
IC5	A - 6	IC106	L - 10
IC6	A - 7		
IC7	A - 8	RV1	H - 2
IC8	A - 9		
IC9	A - 10	S1	F - 2
IC10	B - 3	S2	D - 2
IC11	B - 4	S3	D - 1
IC12	B - 5	S4	E - 1
IC13	B - 6	S5	F - 1
IC14	B - 7	S6	F - 1
IC15	B - 8	S7	G - 1
IC16	B - 8		
IC17	B - 9	TP1	G - 1
IC18	B - 10	TP2	H - 1
IC19	C - 3	TP3	H - 1
IC20	C - 4	TP4	H - 1
IC21	C - 5	TP5	H - 1
IC22	C - 6	TP6	H - 1
IC23	C - 7	TP7	H - 1
IC24	C - 8	TP8	H - 1
IC25	C - 8	TP9	I - 1
IC26	C - 9	TP10	I - 1
IC27	C - 10	TP11	I - 1
IC28	D - 1	TP12	I - 1
IC29	D - 2		
IC30	D - 3	TPE1	I - 1
IC31	D - 4		
IC32	D - 5	TPV1	G - 1
IC33	D - 6		
IC34	D - 7	X1	K - 7
IC35	D - 8		
IC36	D - 8		
IC37	D - 9		
IC38	D - 10		
IC39	E - 1		
IC40	E - 2		
IC41	E - 3		
IC42	E - 4		
IC43	E - 5		
IC44	E - 6		
IC45	E - 7		
IC46	E - 8		
IC47	E - 8		
IC48	E - 9		
IC49	E - 10		
IC50	F - 1		
IC51	F - 2		
IC52	F - 3		
IC53	F - 4		
IC54	F - 5		
IC55	F - 6		
IC56	F - 7		
IC57	F - 8		
IC58	F - 8		
IC59	F - 9		
IC60	F - 10		
IC61	G - 1		
IC62	G - 2		
IC63	G - 3		
IC64	G - 4		
IC65	G - 5		
IC66	G - 6		
IC67	G - 7		
IC68	F - 8		
IC69	G - 8		
IC70	G - 9		
IC71	G - 10		
IC72	H - 1		
IC73	H - 2		
IC74	H - 3		
IC75	H - 4		
IC76	H - 6		
IC78	H - 8		
IC79	H - 9		

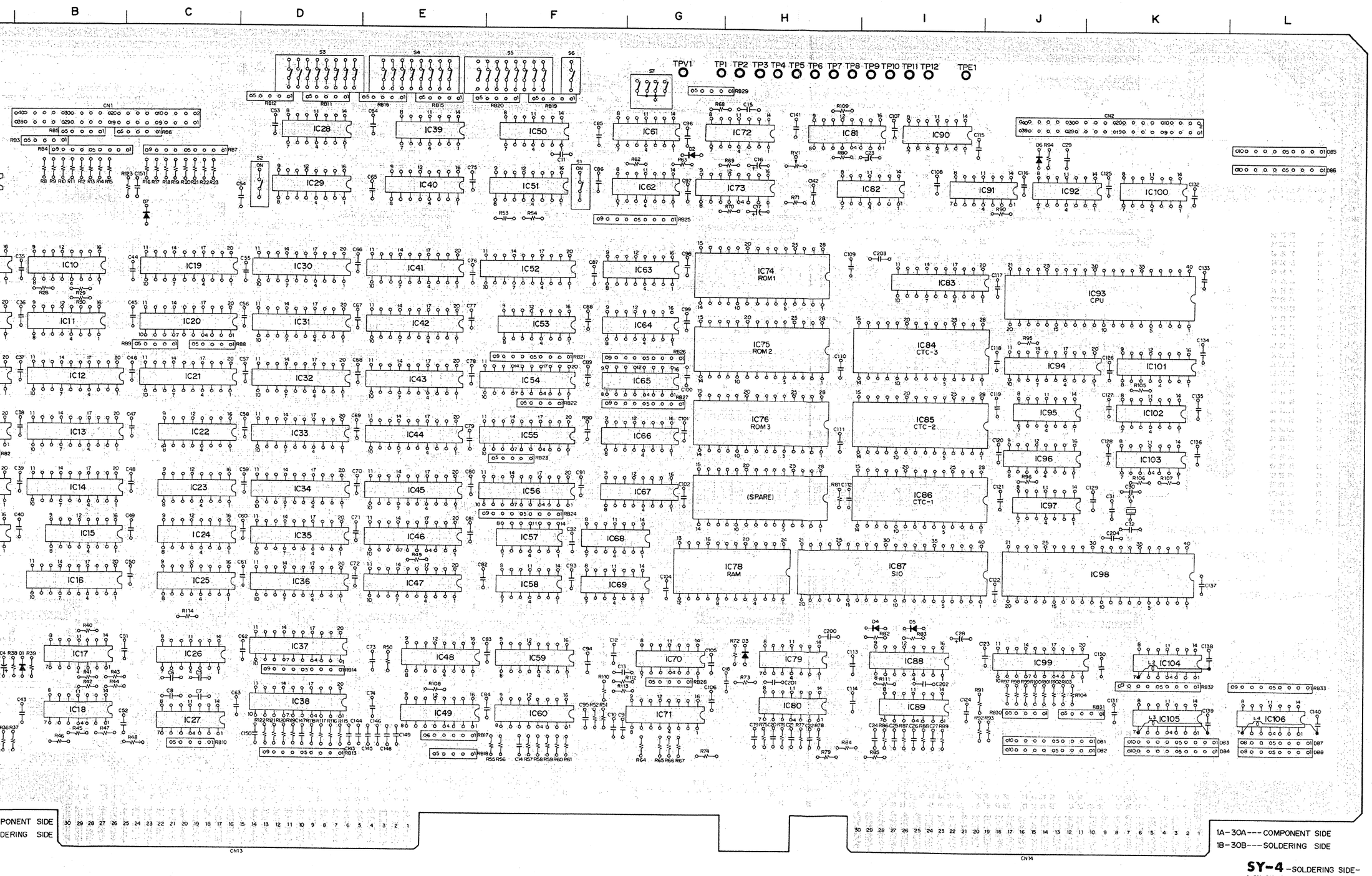
SY-4 -SOLDERING SIDE-

1-613-521-13
BVW-40
BVW-40P
BVW-40S

SY-4 (SYSTEM CONTROL)

Ref. No.	Type	Pin No. +5V	Pin No. GND	Ref. No.	Type	Pin No. +5V	Pin No. GND
IC 1	AM26LS31PC	16	8	IC 54	SN74LS244N	20	10
IC 2	AM26LS32PC	16	8	IC 55	SN74LS244N	20	10
IC 3	TC40H240P	20	10	IC 56	SN74LS245N	20	10
IC 4	SN74LS244N	20	10	IC 57	SN74LS00N	14	7
IC 5	SN74LS244N	20	10	IC 58	SN74LS08N	14	7
IC 6	SN74LS244N	20	10	IC 59	TC4021BP	16	8
IC 7	MC14094BCP	16	8	IC 60	TC4021BP	16	8
IC 8	SN74LS32N	14	7	IC 61	M54529AP	14	7
IC 9	NJM2903D	8	4	IC 62	SN74LS37N	14	7
IC 10	AM26LS32PC	16	8	IC 63	SN74LS138N	16	8
IC 11	AM26LS31PC	16	8	IC 64	SN74LS138N	16	8
IC 12	TC40H240P	20	10	IC 65	SN74LS138N	16	8
IC 13	SN74LS244N	20	10	IC 66	SN74LS138N	16	8
IC 14	SN74LS244N	20	10	IC 67	SN74LS139N	16	8
IC 15	MC14094BCP	16	8	IC 68	SN74LS32N	14	7
IC 16	SN74LS240N	20	10	IC 69	SN74LS32N	14	7
IC 17	MC14584BCP	14	7	IC 70	SN74LS37N	14	7
IC 18	M54529AP	14	7	IC 71	TC4050BP	1	8
IC 19	TC40H240P	20	10	IC 72	TC4073BP	14	7
IC 20	SN74LS244N	20	10	IC 73	MC14538BCP	16	8
IC 21	SN74LS244N	20	10	IC 74	MBM2764-25	28	14
IC 22	TC4021BP	16	8	IC 75	MBM2764-25	28	14
IC 23	TC4021BP	16	8	IC 76	MBM2764-25	28	14
IC 24	TC4021BP	16	8	IC 77	MBM2764-25	28	14
IC 25	TC4021BP	16	8	IC 78	MSM2128-15RS	24	12
IC 26	SN74LS37N	14	7	IC 79	MC14584BCP	14	7
IC 27	M54529AP	14	7	IC 80	SN74LS37N	14	7
IC 28	M54529AP	14	7	IC 81	MC14538BCP	16	8
IC 29	TC4021BP	16	8	IC 82	TC4011BP	14	7
IC 30	TC40H273P	20	10	IC 83	SN74LS241N	20	10
IC 31	TC40H273P	20	10	IC 84	LH0082A	24	5
IC 32	TC40H273P	20	10	IC 85	LH0082A	24	5
IC 33	TC40H273P	20	10	IC 86	LH0082A	24	5
IC 34	TC40H273P	20	10	IC 87	LH0084A	9	31
IC 35	TC40H273P	20	10	IC 88	TC40H368P	16	8
IC 36	TC40H273P	20	10	IC 89	SN74LS37N	14	7
IC 37	SN74LS240N	20	10	IC 90	TC4013BP	14	7
IC 38	SN74LS240N	20	10	IC 91	MC14584BCP	14	7
IC 39	TC4081BP	14	7	IC 92	TC4024BP	14	7
IC 40	TC4021BP	16	8	IC 93	LH0080A	11	29
IC 41	TC40H273P	20	10	IC 94	SN74LS244N	20	10
IC 42	TC40H273P	20	10	IC 95	SN74LS164N	14	7
IC 43	TC40H273P	20	10	IC 96	TC40H368P	16	8
IC 44	TC40H273P	20	10	IC 97	SN74S74N	14	7
IC 45	TC40H273P	20	10	IC 98	μPD8279C-5	40	20
IC 46	TC40H273P	20	10	IC 99	TC40H244P	20	10
IC 47	TC40H273P	20	10	IC100	M54529AP	14	7
IC 48	TC4021BP	16	8	IC101	TC4020BP	16	8
IC 49	TC4021BP	16	8	IC102	SN74LS164N	14	7
IC 50	M54529AP	14	7	IC103	SN74S04N	14	7
IC 51	MC14094BCP	16	8	IC104	M54529AP	14	7
IC 52	SN74LS244N	20	10	IC105	M54529AP	14	7
IC 53	SN74LS138N	16	8	IC106	M54529AP	14	7



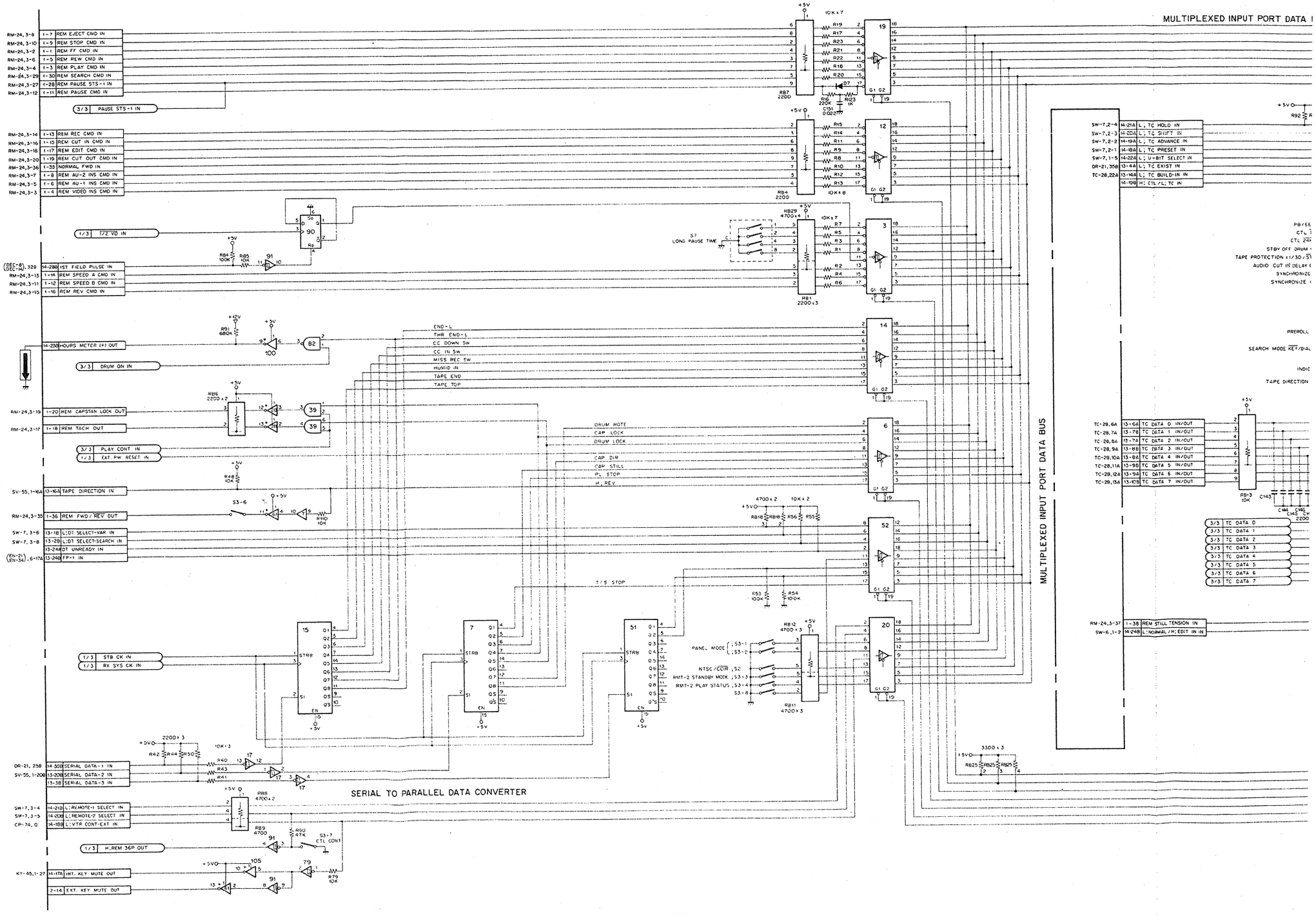


CN1	B - 1	IC80	H - 10
CN2	K - 1	IC81	H - 1
CN13	C - 10	IC82	I - 2
CN14	J - 10	IC83	I - 3
		IC84	I - 4
D1	B - 9	IC85	I - 6
D2	G - 2	IC86	I - 7
D3	H - 9	IC87	I - 8
D4	I - 9	IC88	I - 9
D5	I - 9	IC89	I - 10
D6	J - 2	IC90	I - 1
D7	C - 2	IC91	J - 2
		IC92	J - 2
DB1	J - 10	IC93	K - 3
DB2	J - 10	IC94	J - 4
DB3	K - 10	IC95	J - 5
DB4	K - 10	IC96	J - 6
DB5	L - 1	IC97	J - 7
DB6	L - 2	IC98	K - 8
DB7	L - 10	IC99	J - 9
DB8	L - 10	IC100	K - 2
		IC101	K - 4
IC1	A - 2	IC102	K - 5
IC2	A - 3	IC103	K - 6
IC3	A - 4	IC104	K - 9
IC4	A - 5	IC105	K - 10
IC5	A - 6	IC106	L - 10
IC6	A - 7		
IC7	A - 8	RV1	H - 2
IC8	A - 9		
IC9	A - 10	S1	F - 2
IC10	B - 3	S2	D - 2
IC11	B - 4	S3	D - 1
IC12	B - 5	S4	E - 1
IC13	B - 6	S5	F - 1
IC14	B - 7	S6	F - 1
IC15	B - 8	S7	G - 1
IC16	B - 8		
IC17	B - 9	TP1	G - 1
IC18	B - 10	TP2	H - 1
IC19	C - 3	TP3	H - 1
IC20	C - 4	TP4	H - 1
IC21	C - 5	TP5	H - 1
IC22	C - 6	TP6	H - 1
IC23	C - 7	TP7	H - 1
IC24	C - 8	TP8	H - 1
IC25	C - 8	TP9	I - 1
IC26	C - 9	TP10	I - 1
IC27	C - 10	TP11	I - 1
IC28	D - 1	TP12	I - 1
IC29	D - 2		
IC30	D - 3	TPE1	I - 1
IC31	D - 4		
IC32	D - 5	TPV1	G - 1
IC33	D - 6		
IC34	D - 7	X1	K - 7
IC35	D - 8		
IC36	D - 8		
IC37	D - 9		
IC38	D - 10		
IC39	E - 1		
IC40	E - 2		
IC41	E - 3		
IC42	E - 4		
IC43	E - 5		
IC44	E - 6		
IC45	E - 7		
IC46	E - 8		
IC47	E - 8		
IC48	E - 9		
IC49	E - 10		
IC50	F - 1		
IC51	F - 2		
IC52	F - 3		
IC53	F - 4		
IC54	F - 5		
IC55	F - 6		
IC56	F - 7		
IC57	F - 8		
IC58	F - 8		
IC59	F - 9		
IC60	F - 10		
IC61	G - 1		
IC62	G - 2		
IC63	G - 3		
IC64	G - 4		
IC65	G - 5		
IC66	G - 6		
IC67	G - 7		
IC68	F - 8		
IC69	F - 8		
IC70	G - 9		
IC71	G - 10		
IC72	H - 1		
IC73	H - 2		
IC74	H - 3		
IC75	H - 4		
IC76	H - 6		
IC78	H - 8		
IC79	H - 9		

SY-4 -SOLDERING SIDE-

1-611-521-13
8VW-40
8VW-40P
8VW-40S

SY-4 (2/3) (SYSTEM CONTROL)



MULTIPLEXED INPUT PORT DATA BUS

SW-7,2-4 14-21A L ; TC HOLD IN
SW-7,2-3 14-20A L ; TC SHIFT IN
SW-7,2-2 14-19A L ; TC ADVANCE IN
SW-7,2-1 14-18A L ; TC PRESET IN
SW-7,1-5 14-22A L ; U-BIT SELECT IN
DR-21,35B 13-4A L ; TC EXIST IN
TC-28,22A 13-14A L ; TC BUILD-IN IN
14-19B H: CTL / L: TC IN

4700 × 8 R92 R93 R88 R89 R74 R89 R89 R88

PB/EE - EESW ; S4-1
CTL $\overline{DF}$ / NDF ; S4-2
CTL 24H / 12H ; S4-3
STBY OFF DRUM ON/OFF ; S4-4
TAPE PROTECTION +1/30 / $\overline{STBY\ OFF}$; S4-5
AUDIO CUT IN DELAY ON/OFF ; S4-6
SYNCHRONIZE GRADE ; S4-7
SYNCHRONIZE ON/OFF ; S4-8
R816 4700 × 4 — RB15 470Ω×4

PREROLL TIME ; S5-1 ; S5-2 ; S5-3
SEARCH MODE $\overline{KEY}$/DIAL DIRECT ; S5-4
TEST ; S5-5
INDICATION ; S5-6 ; S5-7
TAPE DIRECTION ON/OFF ; S5-8
R820 4700×4 — RB19 470Ω×4

TC-28,6A 13-6A TC DATA 0 IN/OUT
TC-28,7A 13-7B TC DATA 1 IN/OUT
TC-28,8A 12-7A TC DATA 2 IN/OUT
TC-28,9A 13-8B TC DATA 3 IN/OUT
TC-28,10A 13-8A TC DATA 4 IN/OUT
TC-28,11A 13-9B TC DATA 5 IN/OUT
TC-28,12A 13-9A TC DATA 6 IN/OUT
TC-28,13A 13-10B TC DATA 7 IN/OUT
RB13 10K
R115 R116 R117 R118 R119 R120 R121 R122 47Ω 8
C143 C145 C146 C147 C148 C149 C150 2200P × 8

3/3 TC DATA 0
3/3 TC DATA 1
3/3 TC DATA 2
3/3 TC DATA 3
3/3 TC DATA 4
3/3 TC DATA 5
3/3 TC DATA 6
3/3 TC DATA 7

STILL TENSION ON/OFF S3-5
RM-24,3-3T 1-3B REM STILL TENSION IN
SW-6,1-2 14-24B L: NORMAL / H: EDIT IN IN
RB2 10K

MULTIPLEXED INPUT PORT DATA BUS

DI 0 OUT 1/3
DI 1 OUT 1/3
DI 2 OUT 1/3
DI 3 OUT 1/3
DI 4 OUT 1/3
DI 5 OUT 1/3
DI 6 OUT 1/3
DI 7 OUT 1/3

DB 0 1/3
DB 1 1/3
DB 2 1/3
DB 3 1/3
DB 4 1/3
DB 5 1/3
DB 6 1/3
DB 7 1/3

AB 0 IN 1/3

RL0 RL1 RL2 RL3 RL4 RL5 RL6 RL7
DB0 DB1 DB2 DB3 DB4 DB5 DB6 DB7
AB
99 R97 R98 R99 R100 R101 R102 R103 R104 10K × 8
R830 220Ω×4 R831 220Ω×4
DB2 DB1 DB6 DB5

INT. RETURN LINE 0 IN 14-16A KY-45,1-5
INT. RETURN LINE 1 IN 14-15A KY-45,1-6
INT. RETURN LINE 2 IN 14-14A KY-45,1-7
INT. RETURN LINE 3 IN 14-13A KY-45,1-8
INT. RETURN LINE 4 IN 14-12A KY-45,1-9
INT. RETURN LINE 5 IN 14-11A KY-45,1-10
INT. RETURN LINE 6 IN 14-10A KY-45,1-11
INT. RETURN LINE 7 IN 14-9A KY-45,1-12

EXT. RETURN LINE 0 IN 2-36
EXT. RETURN LINE 1 IN 2-35
EXT. RETURN LINE 2 IN 2-34
EXT. RETURN LINE 3 IN 2-33
EXT. RETURN LINE 4 IN 2-32
EXT. RETURN LINE 5 IN 2-31
EXT. RETURN LINE 6 IN 2-30
EXT. RETURN LINE 7 IN 2-29

98
104 105 106 L2 100μH L3 100μH L4 100μH

SL 2 OUT 1/3

SL0 SL1 SL2 SL3 BD
106 R833 330Ω×5
DB8 DB7

INT. SCAN LINE 0 OUT 14-8A KY-45,1-14
INT. SCAN LINE 1 OUT 14-7A KY-45,1-15
INT. SCAN LINE 2 OUT 14-7B KY-45,1-16
INT. SCAN LINE 3 OUT 14-8B KY-45,1-17
INT. BLANK DISPLAY OUT 14-17B KY-45,1-28

EXT. SCAN LINE 0 OUT 2-27
EXT. SCAN LINE 1 OUT 2-26
EXT. SCAN LINE 2 OUT 2-25
EXT. SCAN LINE 3 OUT 2-24
EXT BLANK DISPLAY OUT 2-13

CK READ WRITE CS RESET
104 105 106
A0 A1 A2 A3 B0 B1 B2 B3
R832 330Ω×5
DB4 DB3

INT. A0 OUT 14-9B KY-45,1-19
INT. A1 OUT 14-10B KY-45,1-20
INT. A2 OUT 14-11B KY-45,1-21
INT. A3 OUT 14-12B KY-45,1-22
INT. B0 OUT 14-13B KY-45,1-23
INT. B1 OUT 14-14B KY-45,1-24
INT. B2 OUT 14-15B KY-45,1-25
INT. B3 OUT 14-16B KY-45,1-26

EXT. A0 OUT 2-22
EXT. A1 OUT 2-21
EXT. A2 OUT 2-20
EXT. A3 OUT 2-19
EXT. B0 OUT 2-18
EXT. B1 OUT 2-17
EXT. B2 OUT 2-16
EXT. B3 OUT 2-15

KEYBOARD / DISPLAY CONTROLLER
C204 2200P

2MHz IN 1/3
8279 $\overline{RD}$ IN 1/3
8279 $\overline{WR}$ IN 1/3
8279 $\overline{CS}$ IN 1/3
H: POWER RESET IN 1/3

INPUT PORT SELECT SIGNAL

ICS 80 IN 1/3
ICS 81 IN 1/3
ICS 82 IN 1/3
ICS 83 IN 1/3
ICS 84 IN 1/3
ICS 85 IN 1/3
ICS 86 IN 1/3
ICS 87 IN 1/3
ICS 88 IN 1/3
ICS 89 IN 1/3
ICS 8A IN 1/3
ICS 8B IN 1/3

SY-4 (2/3)
1-611-521-13
BVW-40
BVW-40P
BVW-40S

SY-4 (3/3) (SYSTEM CONTROL)

NOTE:

MARK	CHANGE INFORMATION	SERIAL NO.
※1	R69 300K → 270K	UC: 11031 ~ J: 10476 ~ P: 10711 ~ S: 10011 ~

MULTIPLEXED OUTPUT PORT DATA BUS

MULTIPLEXD OUTPUT PORT DA

OUTPUT PORT SELECT SIGNAL

OUTPUT PORT SELECT SIGNAL

1/3 DO 0 IN
1/3 DO 1 IN
1/3 DO 2 IN
1/3 DO 3 IN
1/3 DO 4 IN
1/3 DO 5 IN
1/3 DO 6 IN
1/3 DO 7 IN

1/3 OCS 80 IN
1/3 OCS 81 IN
1/3 OCS 82 IN
1/3 OCS 83 IN
1/3 OCS 84 IN
1/3 OCS 85 IN
1/3 OCS 86 IN
1/3 OCS 87 IN
1/3 OCS 88 IN
1/3 OCS 89 IN
1/3 OCS 8A IN
1/3 OCS 8B IN
1/3 OCS 8C IN
1/3 OCS 8D IN

+5V
RB27 330Ω×7
RB26 330Ω×7

34: SPARE-2, SPARE-1, AU-1 E. REL, AU-1 ERASE, AU-1 BIAS, AU-1 REC, AU-1 PB, AU-1 REC/EE

33: SPARE-4, SPARE-3, AU-2 E. REL, AU-2 ERASE, AU-2 BIAS, AU-2 REC, AU-2 PB, AU-2 REC/EE

32, 37, RB44 40K

31, 38

44: CLEANER SOL, TC HOLD LAMP, ASS/INS LAMP, NORMAL FWD, AUTO OFF LAMP

42: STANDBY STATUS, STOP STATUS, FF STATUS, REW STATUS, PLAY STATUS, PAUSE-1 STATUS, PAUSE-2 STATUS

43: REC STATUS, INSERT STATUS, SLAVE/MASTER

36: REC CONT, BIAS OSC ON, FULL ERASE, L-CTL MUTE, FAST, L-CHROMA MUTE, PINCH OFF DLY, CTL COMPE

35: V REC/EE, CTL REC, TC REC/EE, TC REC

RB6 2200×2
RB5 2200×4
RB3 2200×2
R25 10K
R37 1700
104

1/3 L-POWER RESET IN

2/3 TC DATA 0
2/3 TC DATA 1
2/3 TC DATA 2
2/3 TC DATA 3
2/3 TC DATA 4
2/3 TC DATA 5
2/3 TC DATA 6
2/3 TC DATA 7

TC-28,14A 13-10A TC ADDRESS 0 OUT
TC-28,15A 13-11B TC ADDRESS 1 OUT
TC-28,16A 13-11A TC ADDRESS 2 OUT
TC-28,17A 13-12B TC ADDRESS 3 OUT
TC-28,18A 13-12A TC ADDRESS 4 OUT
TC-28,19A/21A 13-13B TC ADDRESS 5 OUT
TC-28,20A 13-13A TC ADDRESS 6 OUT
TC-28,23A 13-15B TC STB OUT

23, 22, 25, 24

TC E REL
TC ERASE
TC REC
ROTARY ERASE
V REC/ASS
V REC/EE

PARALLEL TO SERIAL DATA CONVERTER

1/3 STB CK IN
1/3 TX SYS CK IN

MULTIPLEXD OUTPUT PORT DATA BUS

OUTPUT PORT SELECT SIGNAL

L: EDIT MODE OUT | 13-29B | (SD-6), (SD-8), 3-7/CK-14, 12-24A
L: COMB FILTER OFF OUT | 14-27B | (EN-21), (EN-34), 6-27B
H, PLAYER NOR FWD OUT | 13-29A | (SD-5), 2-10
TC HOLD LAMP OUT | 14-23A | SW-7, 1-3
L: BH ADVANCE OFF OUT | 13-23B
AUTO OFF LAMP OUT | 14-22B | SW-7, 1-1

REM STBY STS OUT | 1-26 | RM-24, 3-25
REM STOP STS OUT | 1-27 | RM-24, 3-28
REM FF STS OUT | 1-21 | RM-24, 3-22
REM REW STS OUT | 1-25 | RM-24, 3-26
REM PLAY STS OUT | 1-23 | RM-24, 3-24
REM PAUSE-2 STS OUT | 1-24 | RM-24, 3-23
PAUSE STS-1 OUT | 2/3

REM REC STS OUT | 1-29 | RM-24, 3-30
REM INS STS OUT | 1-2 | RM-24, 3-1
REM SYNCHRONIZE | 1-22 | RM-24, 3-21
SYNCHRONIZE OUT | 13-23A | SV-55, 1-23A

SLAVE/MASTER OUT | 1/3

L: NOR/HBIG OUT | 14-25B | YC-14, 4-7B
L: REC CONT OUT | 13-2A | DR-21, 22A
L: BIAS OSC ON OUT | 14-29A | AU-46, 6B

H: CHROMA MUTE OUT | 13-14B | (EN-21), (EN-34), 5-8A/YC-14, 3-10A

SERIAL DATA-5 OUT | 13-6B | DR-21, 26B
SERIAL DATA-6 OUT | 14-26A | BC-6, 1-3
SERIAL DATA-7 OUT | 14-27A | BC-6, 1-4
SERIAL DATA-8 OUT | 14-28A | BC-6, 1-5

SG: PINCH ON DELAY ON/OFF
RV1: PINCH ON DELAY

MAIN SOL
PINCH ON
S-BRAKE
T-BRAKE
Cc DOWN
Cc UP
THR. M
UNTHR. M

PINCH SOL.

UNLOAD
LOAD
STOP
FF
REW
PLAY
SEARCH
REEL M.S.

DRUM ON
CAP. ON
T-REEL ON
S-REEL ON
MOVIOLLA

REV/$\overline{FWD}$

CTL COMPE.
V. REC/EE
CTL REC
ASS/INS LAMP
NOR. REC
ASS. REC
L: CTL MUTE
PINCH OFF DLY.

UNREG 9V IN | 13-25A
UNREG 9V IN | 13-25B
UNREG 9V OUT | 2-6
UNREG 9V OUT | 2-7
UNREG 9V OUT | 2-8
UNREG 9V OUT | 2-9

L: F FWD CONT OUT | 14-26B | YC-14, 4-17A
PLAY CONT OUT | 2/3
DRUM ON OUT | 2/3

SERIAL DATA-9 OUT | 13-4B
SERIAL DATA-10 OUT | 13-5B | SV-55, 1-23A
SERIAL DATA-3 OUT | 13-20A | SV-55, 1-20A
SERIAL DATA-4 OUT | 13-5A | DR-21, 24B
SERIAL DATA-1 OUT | 13-22A | SV-55, 1-22A
SERIAL DATA-2 OUT | 13-21A | SV-55, 1-21A

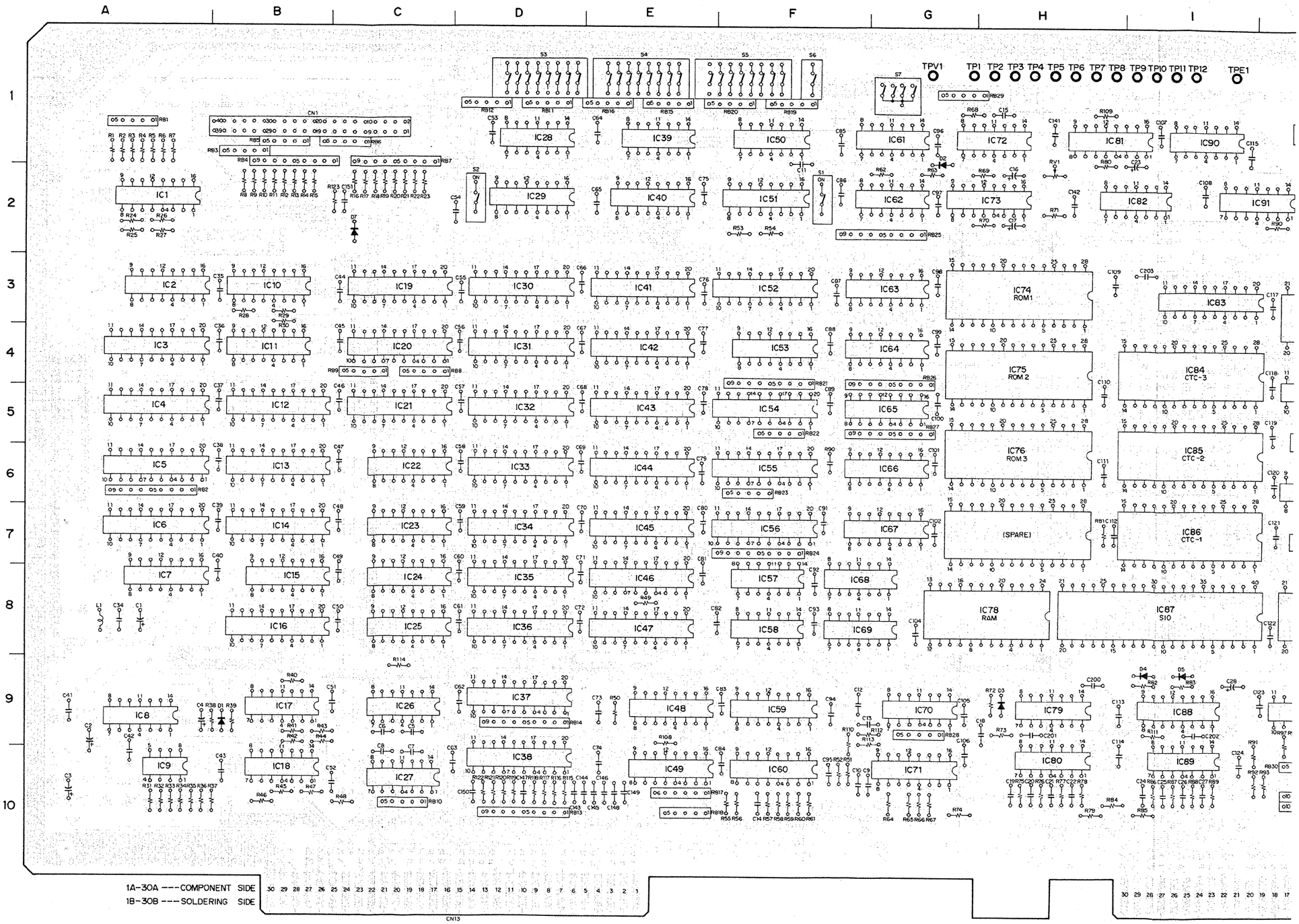
PARALLEL TO SERIAL DATA CONVERTER

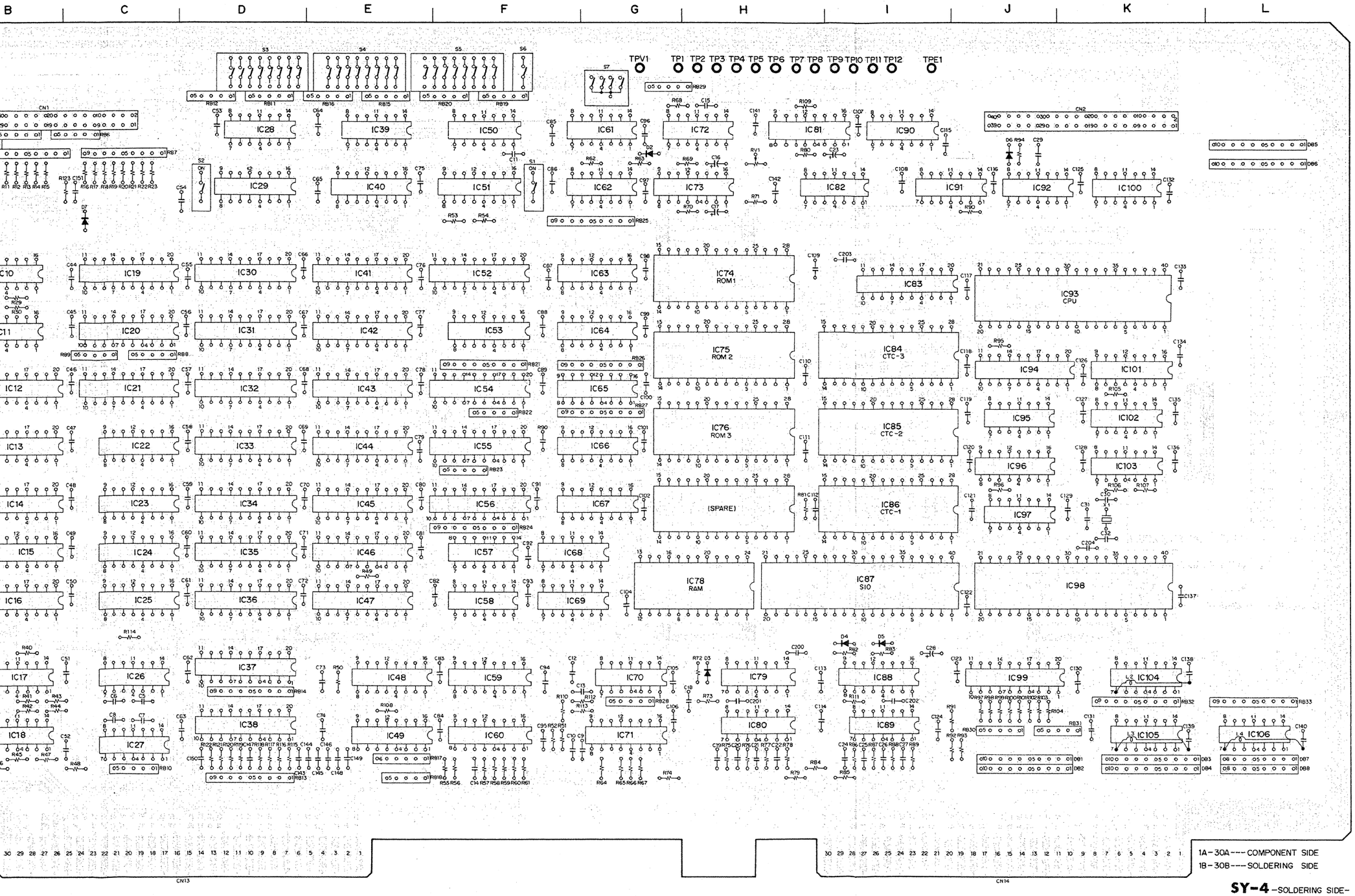
SY-4(3/3)

1-611-521-12,13
BVM-40
BVM-40P
BVM-40S

SY-4 (SYSTEM CONTROL)

Ref. No.	Type	Pin No. +5V	Pin No. GND	Ref. No.	Type	Pin No. +5V	Pin No. GND
IC 1	AM26LS31PC	16	8	IC 54	SN74LS244N	20	10
IC 2	AM26LS32PC	16	8	IC 55	SN74LS244N	20	10
IC 3	TC40H240P	20	10	IC 56	SN74LS245N	20	10
IC 4	SN74LS244N	20	10	IC 57	SN74LS00N	14	7
IC 5	SN74LS244N	20	10	IC 58	SN74LS08N	14	7
IC 6	SN74LS244N	20	10	IC 59	TC4021BP	16	8
IC 7	MC14094BCP	16	8	IC 60	TC4021BP	16	8
IC 8	SN74LS32N	14	7	IC 61	M54529AP	14	7
IC 9	NJM2903D	8	4	IC 62	SN74LS37N	14	7
IC 10	AM26LS32PC	16	8	IC 63	SN74LS138N	16	8
IC 11	AM26LS31PC	16	8	IC 64	SN74LS138N	16	8
IC 12	TC40H240P	20	10	IC 65	SN74LS138N	16	8
IC 13	SN74LS244N	20	10	IC 66	SN74LS138N	16	8
IC 14	SN74LS244N	20	10	IC 67	SN74LS139N	16	8
IC 15	MC14094BCP	16	8	IC 68	SN74LS32N	14	7
IC 16	SN74LS240N	20	10	IC 69	SN74LS32N	14	7
IC 17	MC14584BCP	14	7	IC 70	SN74LS37N	14	7
IC 18	M54529AP	14	7	IC 71	TC4050BP	1	8
IC 19	TC40H240P	20	10	IC 72	TC4073BP	14	7
IC 20	SN74LS244N	20	10	IC 73	MC14538BCP	16	8
IC 21	SN74LS244N	20	10	IC 74	MBM2764-25	28	14
IC 22	TC4021BP	16	8	IC 75	MBM2764-25	28	14
IC 23	TC4021BP	16	8	IC 76	MBM2764-25	28	14
IC 24	TC4021BP	16	8	IC 77	MBM2764-25	28	14
IC 25	TC4021BP	16	8	IC 78	MSM2128-15RS	24	12
IC 26	SN74LS37N	14	7	IC 79	MC14584BCP	14	7
IC 27	M54529AP	14	7	IC 80	SN74LS37N	14	7
IC 28	M54529AP	14	7	IC 81	MC14538BCP	16	8
IC 29	TC4021BP	16	8	IC 82	TC4011BP	14	7
IC 30	TC40H273P	20	10	IC 83	SN74LS244N	20	10
IC 31	TC40H273P	20	10	IC 84	LH0082A	24	5
IC 32	TC40H273P	20	10	IC 85	LH0082A	24	5
IC 33	TC40H273P	20	10	IC 86	LH0082A	24	5
IC 34	TC40H273P	20	10	IC 87	LH0084A	9	31
IC 35	TC40H273P	20	10	IC 88	TC40H368P	16	8
IC 36	TC40H273P	20	10	IC 89	SN74LS37N	14	7
IC 37	SN74LS240N	20	10	IC 90	TC4013BP	14	7
IC 38	SN74LS240N	20	10	IC 91	MC14584BCP	14	7
IC 39	TC4081BP	14	7	IC 92	TC1024BP	14	7
IC 40	TC4021BP	16	8	IC 93	LH0080A	11	29
IC 41	TC40H273P	20	10	IC 94	SN74LS244N	20	10
IC 42	TC40H273P	20	10	IC 95	SN74LS164N	14	7
IC 43	TC40H273P	20	10	IC 96	TC40H368P	16	8
IC 44	TC40H273P	20	10	IC 97	SN74S74N	14	7
IC 45	TC40H273P	20	10	IC 98	μ PD8279C-5	40	20
IC 46	TC40H273P	20	10	IC 99	TC40H244P	20	10
IC 47	TC40H273P	20	10	IC100	M54529AP	14	7
IC 48	TC4021BP	16	8	IC101	TC4020BP	16	8
IC 49	TC4021BP	16	8	IC102	SN74LS164N	14	7
IC 50	M54529AP	14	7	IC103	SN74S01N	14	7
IC 51	MC14094BCP	16	8	IC104	M54529AP	14	7
IC 52	SN74LS244N	20	10	IC105	M54529AP	14	7
IC 53	SN74LS138N	16	8	IC106	M54529AP	14	7





CN1	B - 1	IC80	H - 10
CN2	K - 1	IC81	H - 1
CN13	C - 10	IC82	I - 2
CN14	J - 10	IC83	I - 3
		IC84	I - 4
D1	B - 9	IC85	I - 6
D2	G - 2	IC86	I - 7
D3	H - 9	IC87	I - 8
D4	I - 9	IC88	I - 9
D5	I - 9	IC89	I - 10
D6	J - 2	IC90	I - 1
D7	C - 2	IC91	J - 2
		IC92	J - 2
DB1	J - 10	IC93	K - 3
DB2	J - 10	IC94	J - 4
DB3	K - 10	IC95	J - 5
DB4	K - 10	IC96	J - 6
DB5	L - 1	IC97	J - 7
DB6	L - 2	IC98	K - 8
DB7	L - 10	IC99	J - 9
DB8	L - 10	IC100	K - 2
		IC101	K - 4
IC1	A - 2	IC102	K - 5
IC2	A - 3	IC103	K - 6
IC3	A - 4	IC104	K - 9
IC4	A - 5	IC105	K - 10
IC5	A - 6	IC106	L - 10
IC6	A - 7		
IC7	A - 8	RV1	H - 2
IC8	A - 9		
IC9	A - 10	S1	F - 2
IC10	B - 3	S2	D - 2
IC11	B - 4	S3	D - 1
IC12	B - 5	S4	E - 1
IC13	B - 6	S5	F - 1
IC14	B - 7	S6	F - 1
IC15	B - 8	S7	G - 1
IC16	B - 8		
IC17	B - 9	TP1	G - 1
IC18	B - 10	TP2	H - 1
IC19	C - 3	TP3	H - 1
IC20	C - 4	TP4	H - 1
IC21	C - 5	TP5	H - 1
IC22	C - 6	TP6	H - 1
IC23	C - 7	TP7	H - 1
IC24	C - 8	TP8	H - 1
IC25	C - 8	TP9	I - 1
IC26	C - 9	TP10	I - 1
IC27	C - 10	TP11	I - 1
IC28	D - 1	TP12	I - 1
IC29	D - 2		
IC30	D - 3	TPE1	I - 1
IC31	D - 4		
IC32	D - 5	TPV1	G - 1
IC33	D - 6		
IC34	D - 7	X1	K - 7
IC35	D - 8		
IC36	D - 8		
IC37	D - 9		
IC38	D - 10		
IC39	E - 1		
IC40	E - 2		
IC41	E - 3		
IC42	E - 4		
IC43	E - 5		
IC44	E - 6		
IC45	E - 7		
IC46	E - 8		
IC47	E - 8		
IC48	E - 9		
IC49	E - 10		
IC50	F - 1		
IC51	F - 2		
IC52	F - 3		
IC53	F - 4		
IC54	F - 5		
IC55	F - 6		
IC56	F - 7		
IC57	F - 8		
IC58	F - 8		
IC59	F - 9		
IC60	F - 10		
IC61	G - 1		
IC62	G - 2		
IC63	G - 3		
IC64	G - 4		
IC65	G - 5		
IC66	G - 6		
IC67	G - 7		
IC68	F - 8		
IC69	G - 9		
IC70	G - 10		
IC71	H - 1		
IC72	H - 2		
IC73	H - 3		
IC74	H - 4		
IC75	H - 6		
IC76	H - 8		
IC78	H - 9		
IC79			

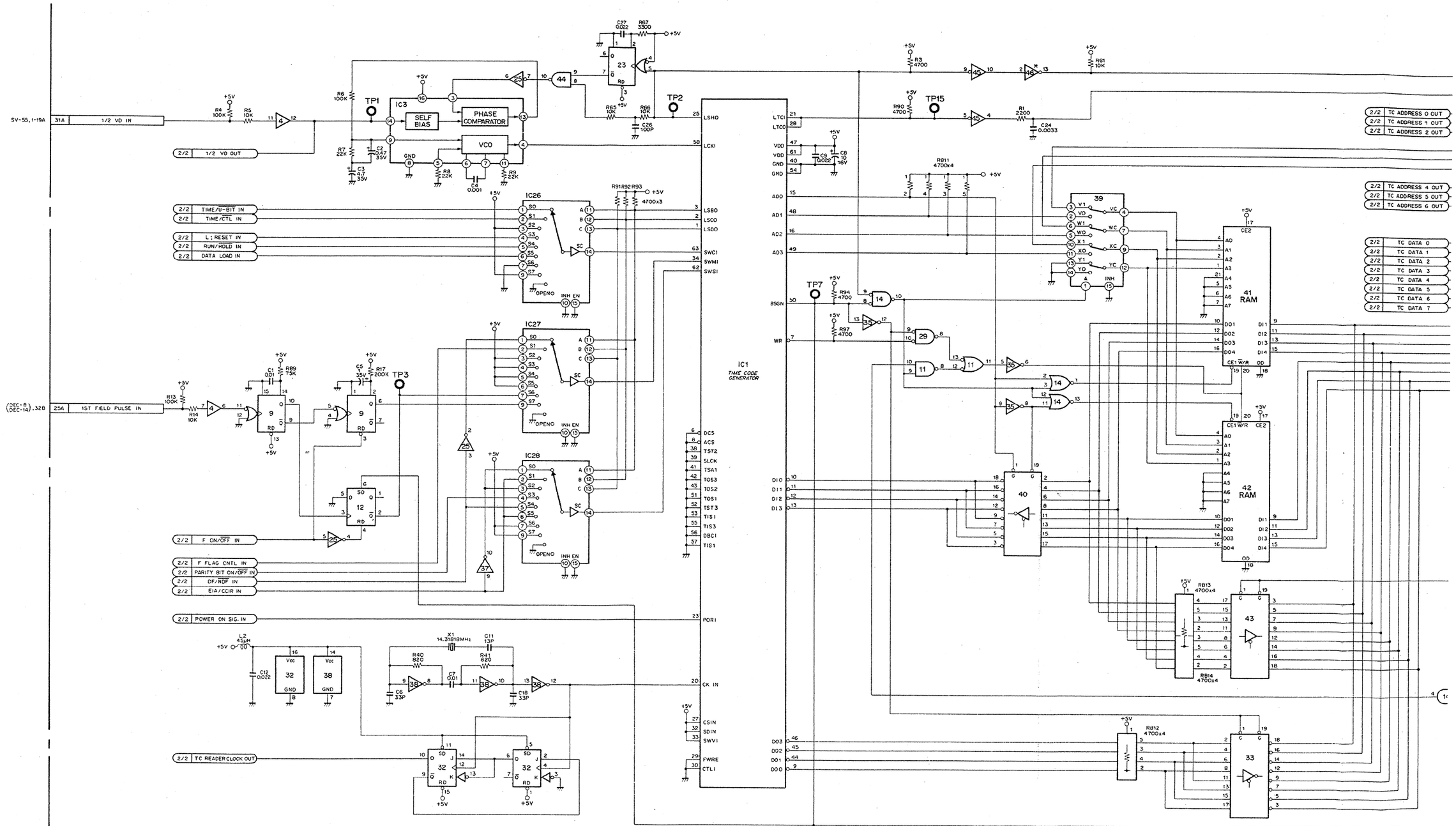
SY-4 –SOLDERING SIDE–

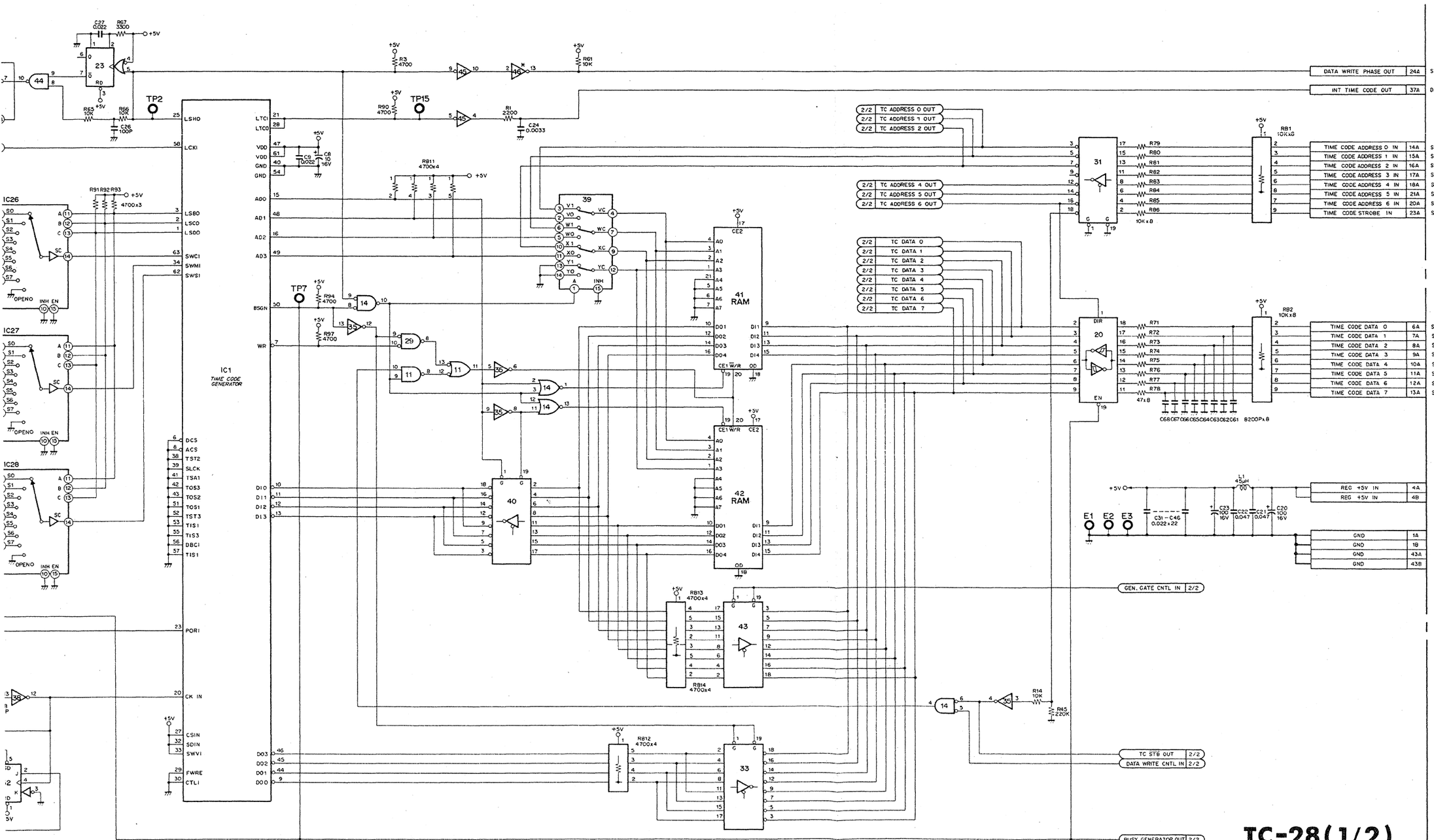
1-611-521-13
8VW-40
8VW-40P
8VW-40S

TC-28 (1/2)

TC-28 (1/2)

TC-28 (1/2) (TIME CODE GENERATOR)

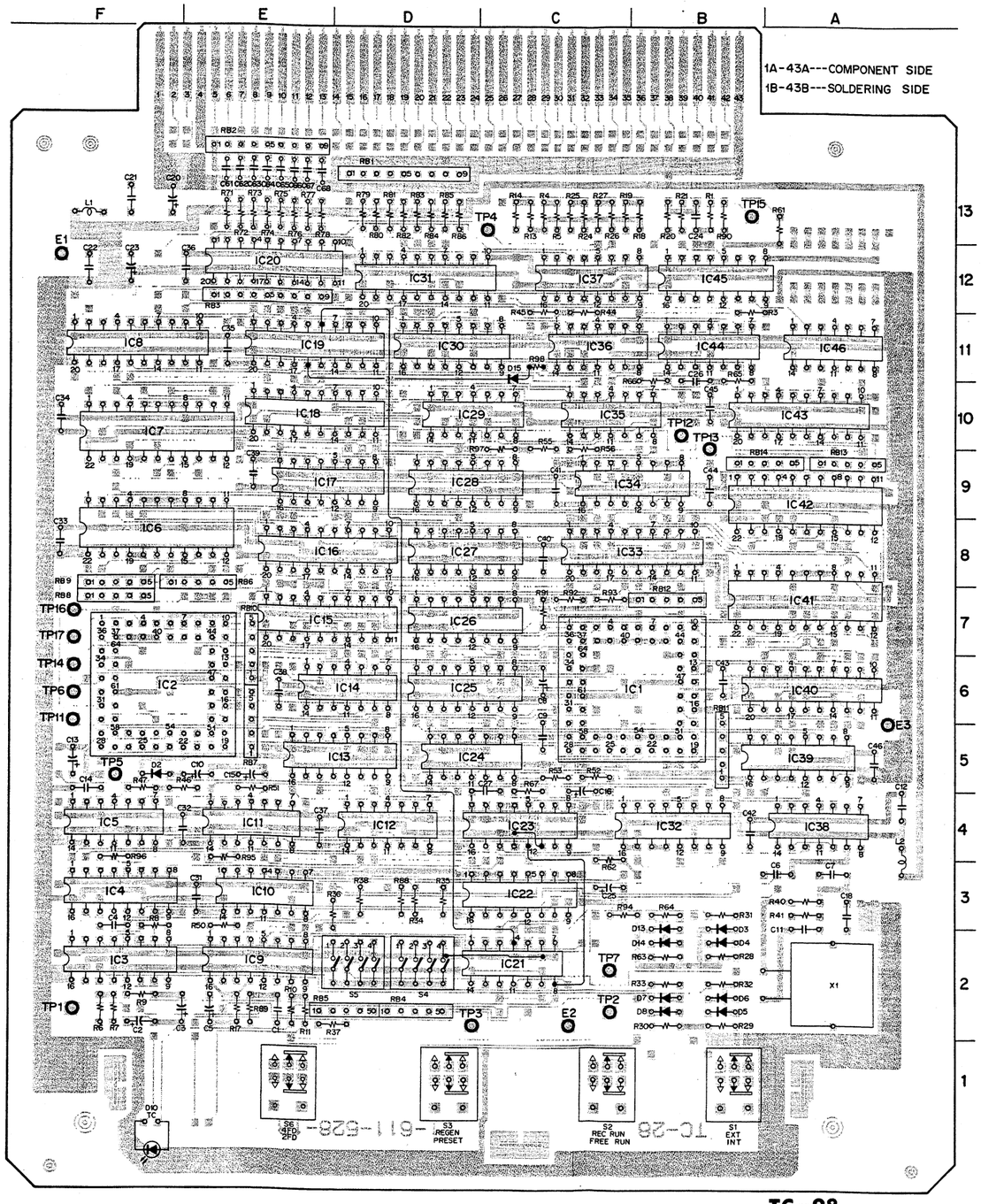




TC-28(1/2)

1-611-528-13
8VW-40
8VW-40P
8VW-40S

TC-28 (TIME CODE GENERATOR)

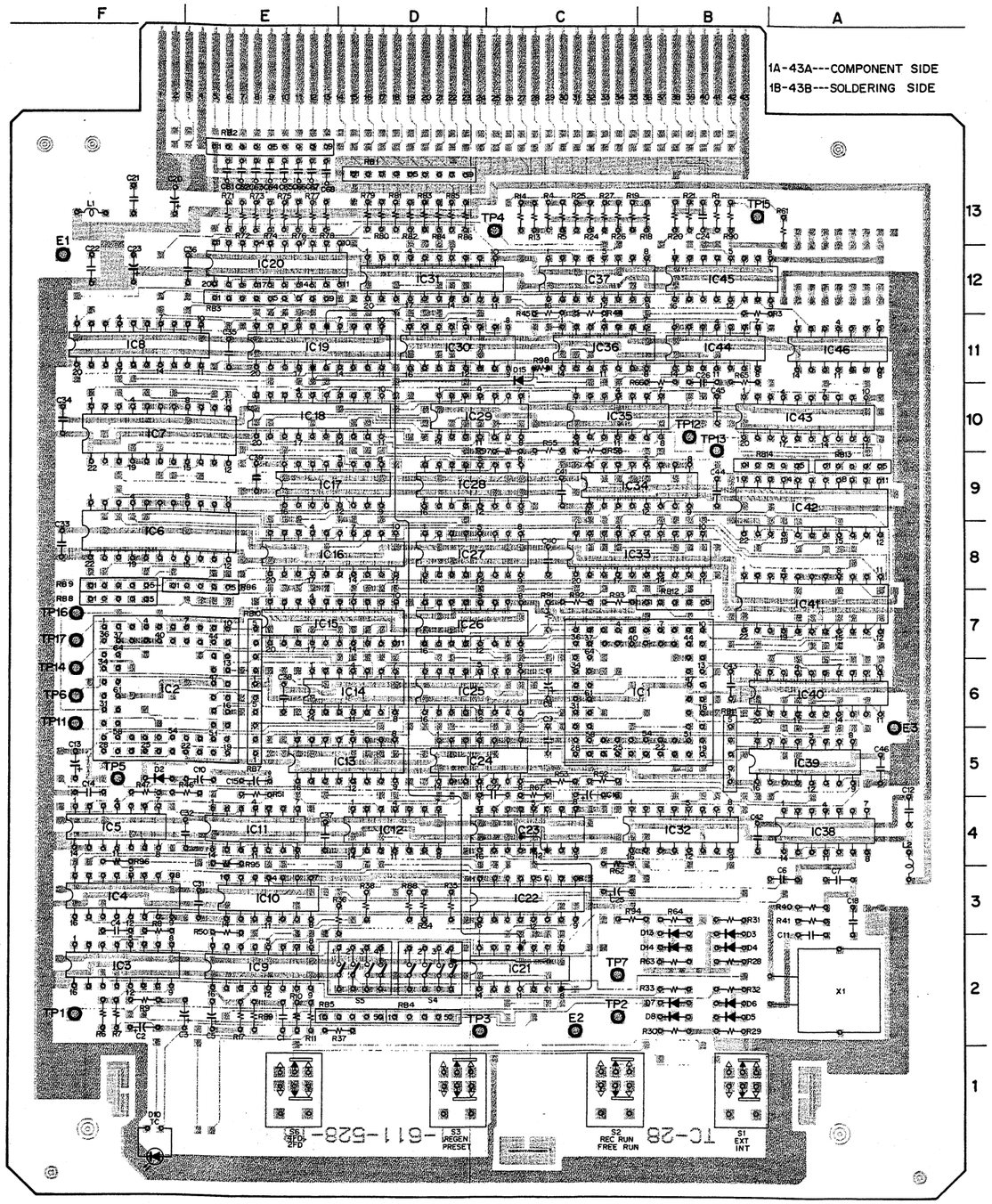


TC-28 –SOLDERING SIDE–

1-611-528-13
BVW-40P
BVW-40S

D2	F - 5
D3	B - 3
D4	B - 2
D5	B - 2
D6	B - 2
D7	B - 2
D8	B - 2
D10	F - 1
D13	B - 3
D14	B - 2
D15	C - 11
E1	F - 12
E2	C - 2
E3	A - 6
IC1	C - 6
IC2	F - 6
IC3	F - 2
IC4	F - 3
IC5	F - 4
IC6	F - 8
IC7	F - 10
IC8	F - 11
IC9	E - 2
IC10	E - 3
IC11	E - 4
IC12	D - 4
IC13	D - 5
IC14	D - 6
IC15	E - 7
IC16	E - 8
IC17	E - 9
IC18	E - 10
IC19	E - 11
IC20	E - 12
IC21	C - 3
IC22	C - 4
IC23	C - 5
IC24	D - 5
IC25	D - 6
IC26	D - 7
IC27	D - 8
IC28	D - 9
IC29	D - 10
IC30	D - 11
IC31	D - 12
IC32	B - 4
IC33	C - 8
IC34	C - 9
IC35	C - 10
IC36	C - 11
IC37	C - 12
IC38	A - 4
IC39	A - 5
IC40	A - 6
IC41	A - 7
IC42	A - 9
IC43	A - 10
IC44	B - 11
IC45	B - 12
IC46	A - 11
RB1	D - 13
RB2	E - 13
RB3	E - 12
RB4	D - 2
RB5	E - 2
RB6	E - 7
RB7	E - 5
RB8	F - 7
RB9	F - 7
RB10	E - 7
RB11	B - 5
RB12	B - 7
RB13	A - 9
RB14	A - 9
S1	B - 1
S2	C - 1
S3	D - 1
S4	D - 2
S5	D - 2
S6	E - 1
TP1	F - 2
TP2	C - 2
TP3	D - 2
TP4	C - 13
TP5	F - 5
TP6	F - 6
TP7	C - 3
TP11	F - 6
TP12	B - 10
TP13	B - 10
TP14	F - 6
TP15	B - 13
TP16	F - 7
TP17	F - 7
X1	A - 2

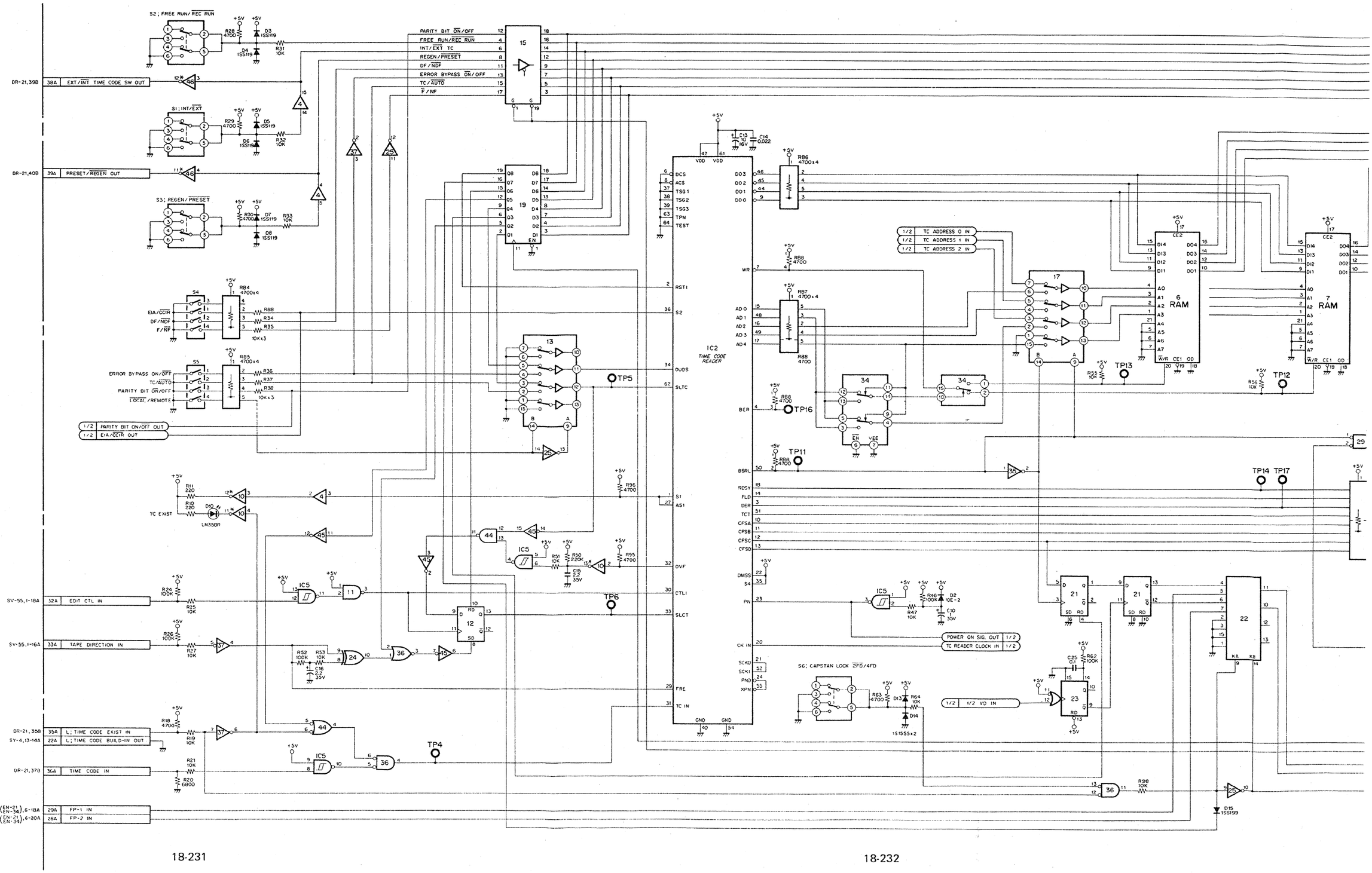
TC-28 (TIME CODE READER)

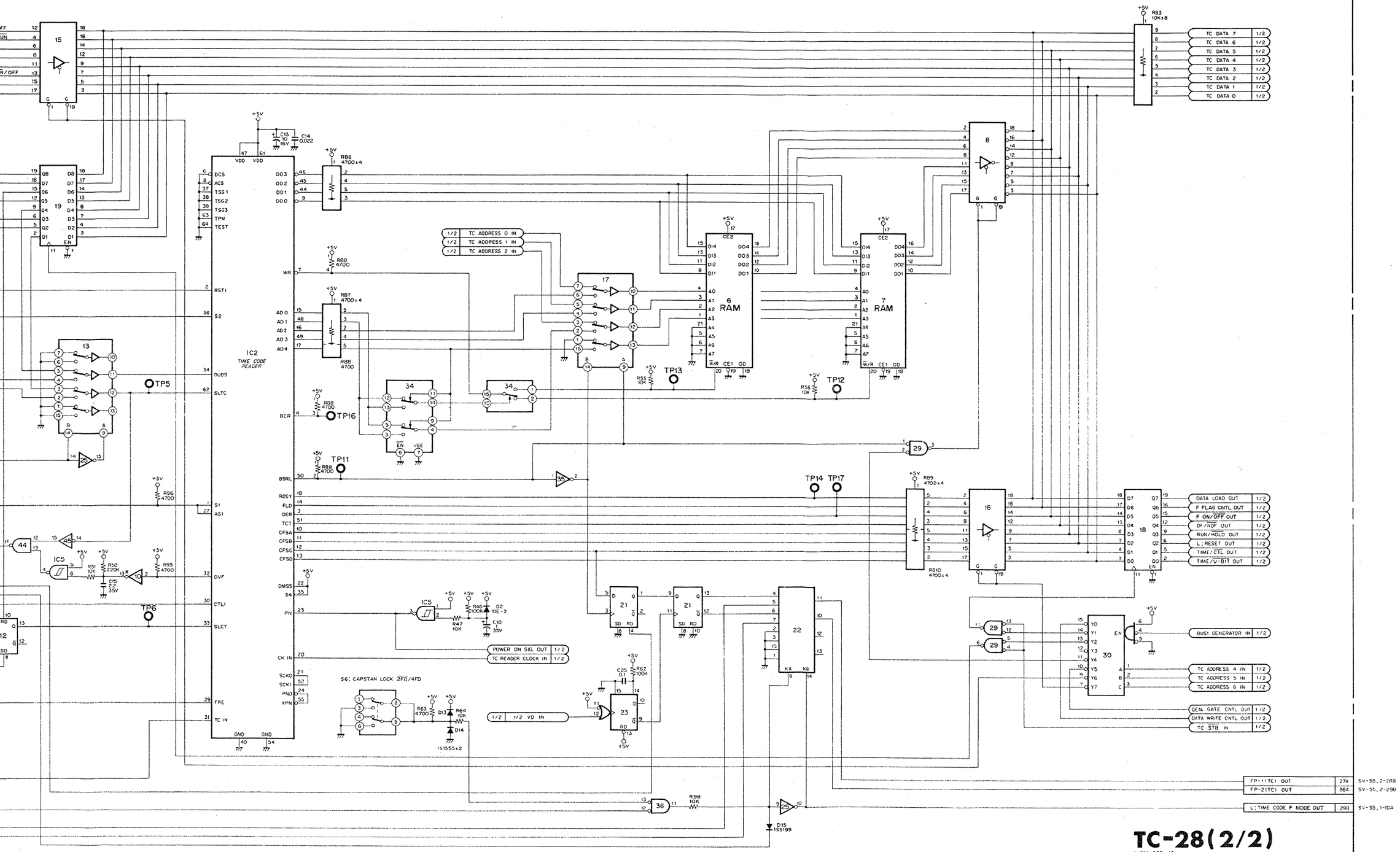


TC-28 –SOLDERING SIDE–
1-611-528-13
BVW-40P
BVW-40S

D2	F - 5
D3	B - 3
D4	B - 2
D5	B - 2
D6	B - 2
D7	B - 2
D8	B - 2
D10	F - 1
D13	B - 3
D14	B - 2
D15	C - 11
E1	F - 12
E2	C - 2
E3	A - 6
IC1	C - 6
IC2	F - 6
IC3	F - 2
IC4	F - 3
IC5	F - 4
IC6	F - 8
IC7	F - 10
IC8	F - 11
IC9	E - 2
IC10	E - 3
IC11	E - 4
IC12	D - 4
IC13	D - 5
IC14	D - 6
IC15	E - 7
IC16	E - 8
IC17	E - 9
IC18	E - 10
IC19	E - 11
IC20	E - 12
IC21	C - 3
IC22	C - 4
IC23	C - 5
IC24	D - 5
IC25	D - 6
IC26	D - 7
IC27	D - 8
IC28	D - 9
IC29	D - 10
IC30	D - 11
IC31	D - 12
IC32	B - 4
IC33	C - 8
IC34	C - 9
IC35	C - 10
IC36	C - 11
IC37	C - 12
IC38	A - 4
IC39	A - 5
IC40	A - 6
IC41	A - 7
IC42	A - 9
IC43	A - 10
IC44	B - 11
IC45	B - 12
IC46	A - 11
RB1	D - 13
RB2	E - 13
RB3	E - 12
RB4	D - 2
RB5	E - 2
RB6	E - 7
RB7	E - 5
RB8	F - 7
RB9	F - 7
RB10	E - 7
RB11	B - 5
RB12	B - 7
RB13	A - 9
RB14	A - 9
S1	B - 1
S2	C - 1
S3	D - 1
S4	D - 2
S5	D - 2
S6	E - 1
TP1	F - 2
TP2	C - 2
TP3	D - 2
TP4	C - 13
TP5	F - 5
TP6	F - 6
TP7	C - 3
TP11	F - 6
TP12	B - 10
TP13	B - 10
TP14	F - 6
TP15	B - 13
TP16	F - 7
TP17	F - 7
X1	A - 2

TC-28 (2/2) (TIME CODE READER)





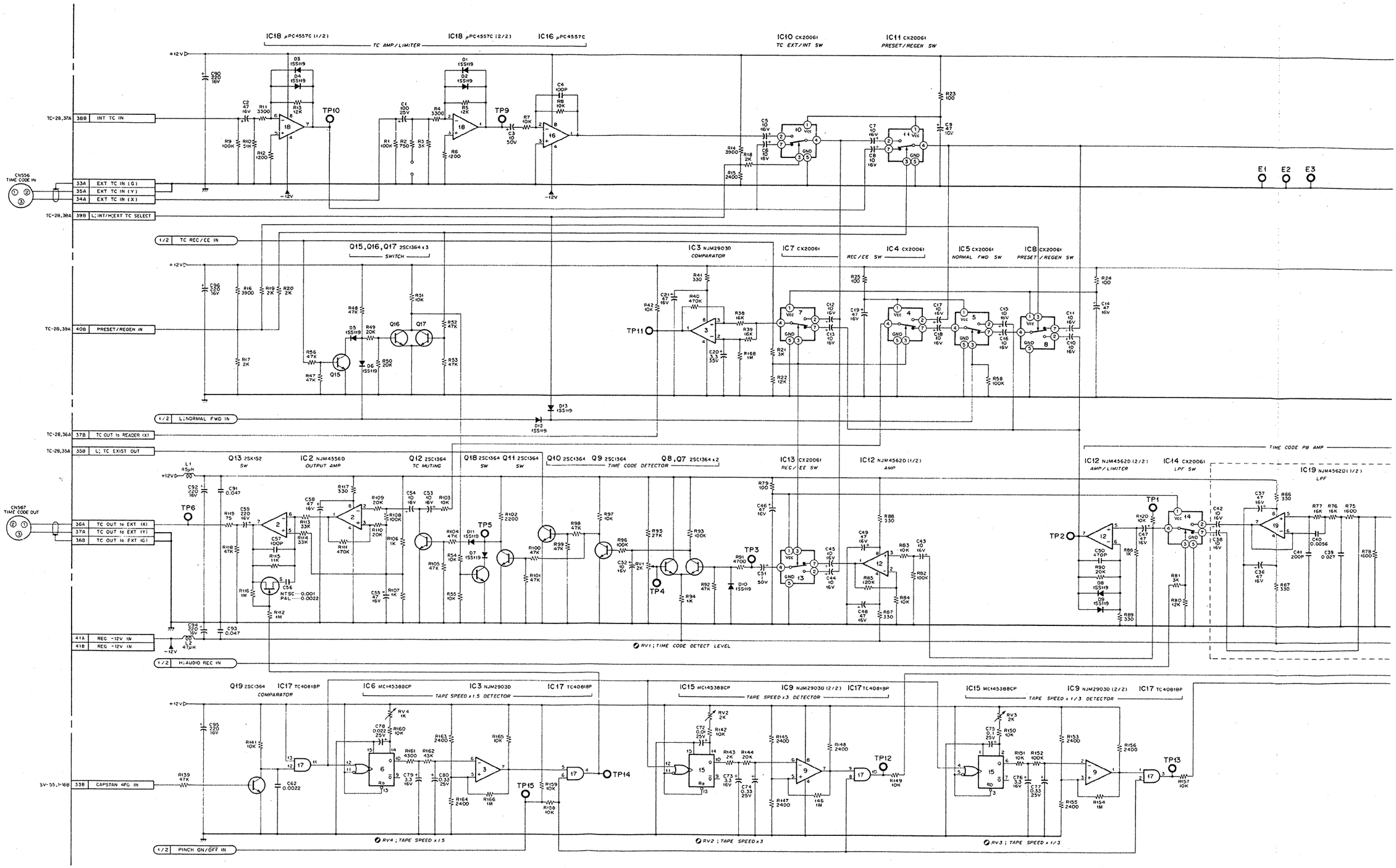
TC-28(2/2)

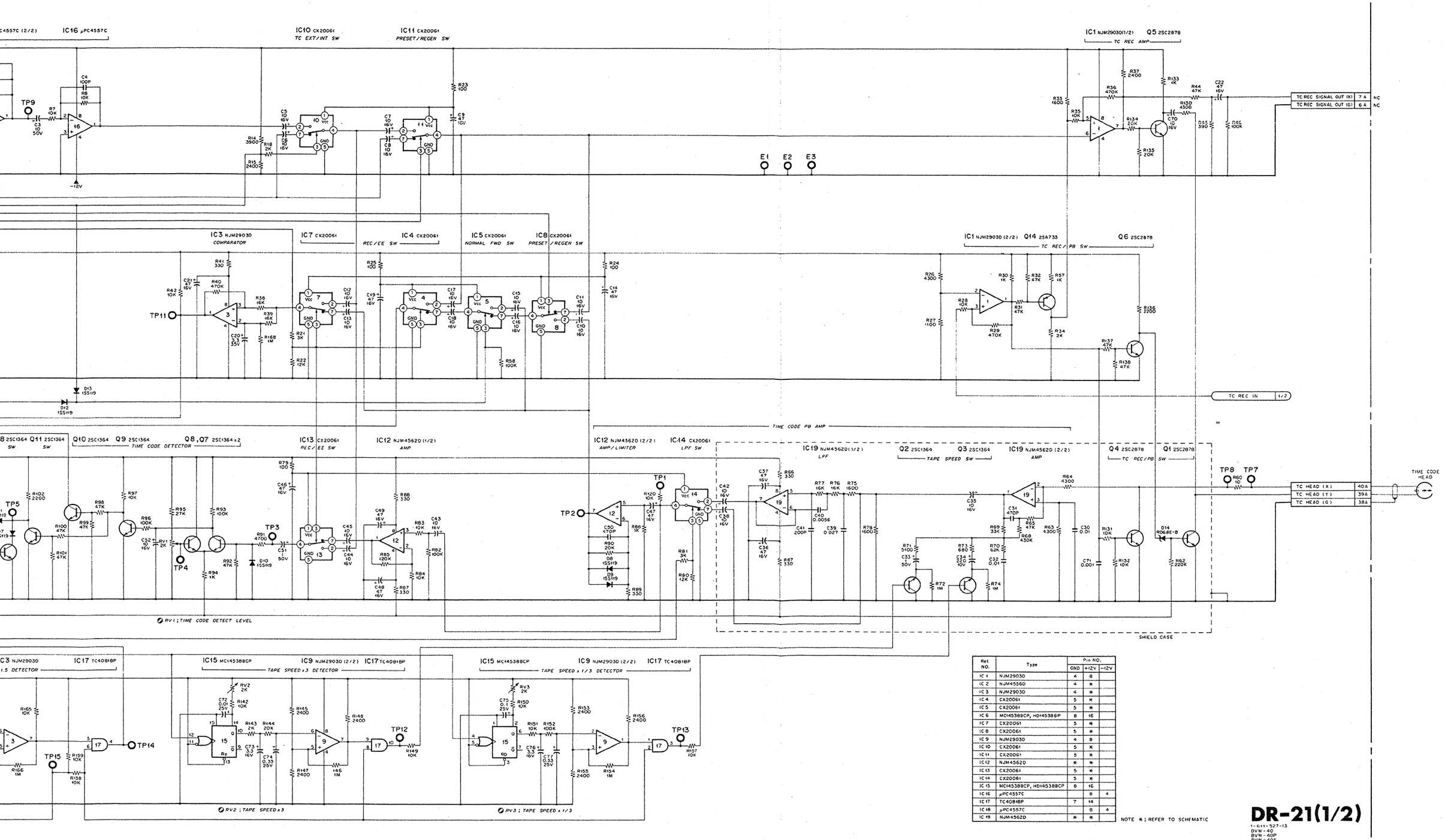
1-611-528-13
8VW-40P
8VW-40S

DR-21 (1/2)

DR-21 (1/2)

DR-21 (1/2) (TIME CODE REC PB AMPLIFIER)





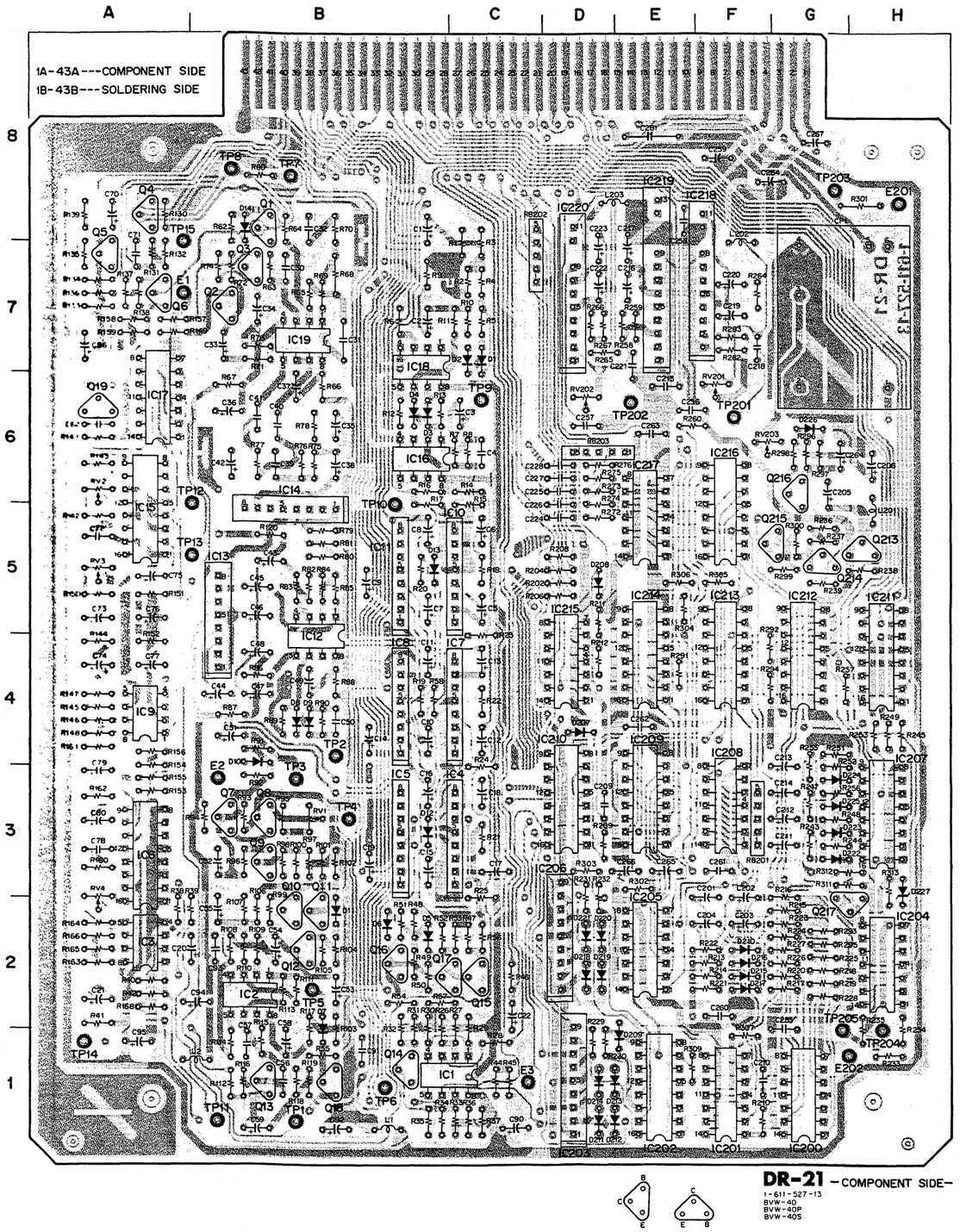
Ref. NO.	Type	Pin NO. GND	+12V	-12V
IC 1	NJM2903D	4	8	
IC 2	NJM4556D	4	*	
IC 3	NJM2903D	4	*	
IC 4	CX20061	5	*	
IC 5	CX20061	5	*	
IC 6	MC14538BCP, HD14538BP	8	16	
IC 7	CX20061	5	*	
IC 8	CX20061	5	*	
IC 9	NJM2903D	4	8	
IC 10	CX20061	5	*	
IC 11	CX20061	5	*	
IC 12	NJM4562D	*	*	
IC 13	CX20061	5	*	
IC 14	CX20061	5	*	
IC 15	MC14538BCP, HD14538BCP	8	16	
IC 16	μPC4557C		8	4
IC 17	TC4081BP	7	14	
IC 18	μPC4557C		8	4
IC 19	NJM4562D	*	*	

NOTE * ; REFER TO SCHEMATIC

DR-21(1/2)

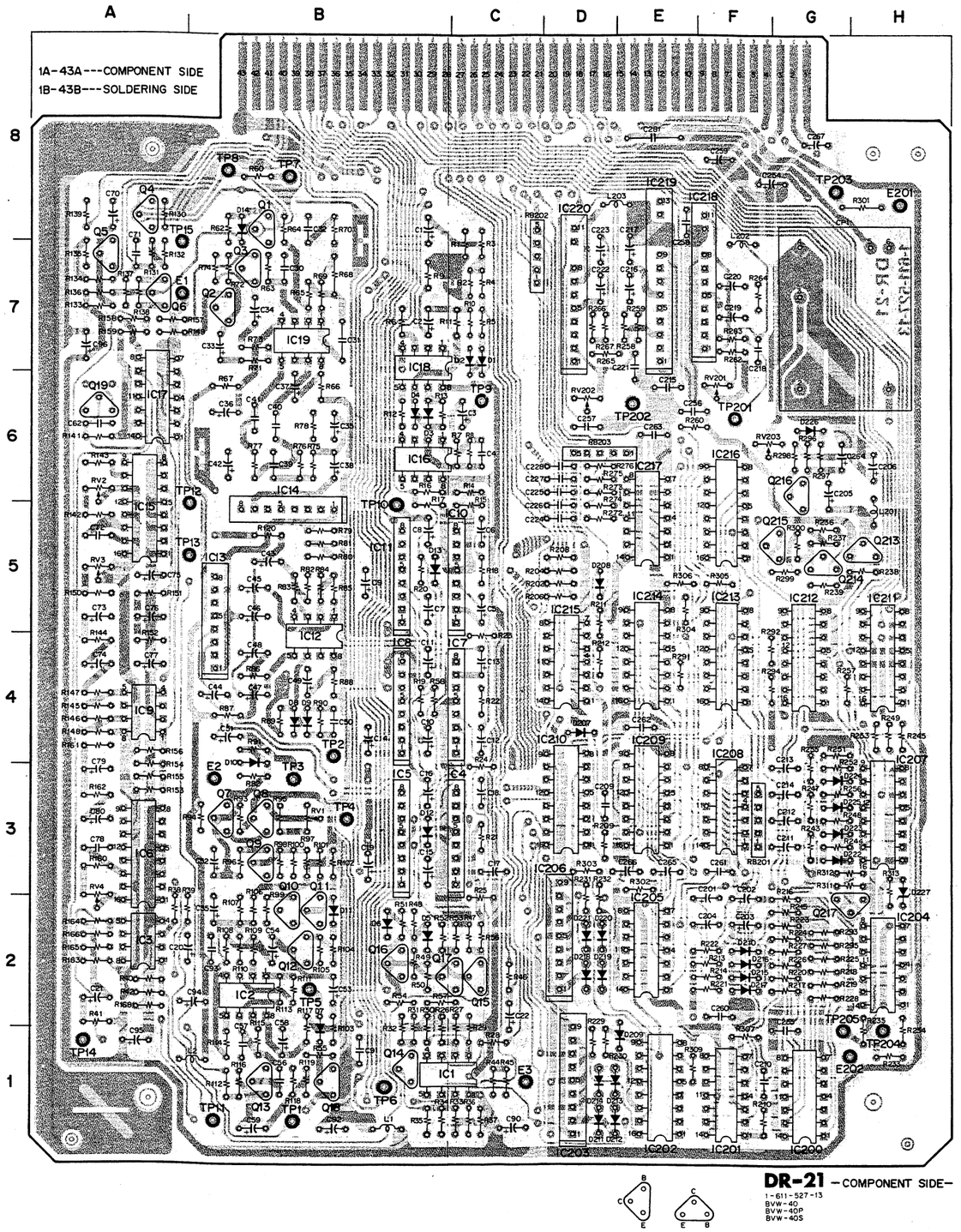
1-611-527-13
BVW-40
BVW-40P
BVW-40S

DR-21 (TIME CODE REC PB AMPLIFIER)



CP1	G - 7	Q1	B - 8
		Q2	B - 7
D1	C - 7	Q3	B - 7
D2	C - 7	Q4	A - 8
D3	B - 6	Q5	A - 7
D4	B - 6	Q6	A - 7
D5	B - 2	Q7	B - 3
D6	B - 2	Q8	B - 3
D7	B - 2	Q9	B - 3
D8	B - 4	Q10	B - 2
D9	B - 4	Q11	B - 2
D10	B - 4	Q12	B - 2
D11	B - 2	Q13	B - 1
D12	B - 3	Q14	B - 1
D13	B - 5	Q15	C - 2
D14	B - 8	Q16	B - 2
D207	D - 4	Q17	C - 2
D208	D - 5	Q18	B - 1
D209	E - 1	Q19	A - 6
D210	F - 2	Q213	H - 5
D211	D - 1	Q214	G - 5
D212	D - 1	Q215	G - 5
D213	D - 1	Q216	G - 6
D214	D - 1	Q217	G - 2
D215	F - 2		
D216	F - 2	RB201	F - 3
D217	F - 2	RB202	C - 7
D218	D - 2	RB203	D - 6
D219	D - 2		
D220	D - 2	RV1	B - 3
D221	D - 2	RV2	A - 6
D222	G - 3	RV3	A - 5
D223	G - 3	RV4	A - 3
D224	G - 3	RV201	F - 6
D225	G - 3	RV202	D - 6
D226	G - 6	RV203	F - 6
D227	H - 3		
		TP1	B - 1
E1	A - 7	TP2	B - 4
E2	B - 3	TP3	B - 3
E3	C - 1	TP4	B - 3
E201	H - 8	TP5	B - 2
E202	G - 1	TP6	B - 1
		TP7	B - 8
IC1	C - 1	TP8	B - 8
IC2	B - 2	TP9	C - 6
IC3	A - 2	TP10	B - 6
IC4	C - 3	TP11	B - 1
IC5	B - 3	TP12	B - 6
IC6	A - 3	TP13	B - 5
IC7	C - 4	TP14	A - 1
IC8	B - 4	TP15	A - 7
IC9	A - 4	TP201	F - 6
IC10	C - 5	TP202	E - 6
IC11	B - 5	TP203	G - 8
IC12	B - 5	TP204	H - 2
IC13	B - 5	TP205	G - 2
IC14	B - 5		
IC15	A - 5		
IC16	B - 6		
IC17	A - 6		
IC18	B - 7		
IC19	B - 7		
IC200	G - 1		
IC201	F - 1		
IC202	E - 1		
IC203	D - 1		
IC204	H - 2		
IC205	E - 2		
IC206	D - 2		
IC207	H - 3		
IC208	F - 3		
IC209	E - 3		
IC210	D - 3		
IC211	H - 4		
IC212	G - 4		
IC213	F - 4		
IC214	E - 4		
IC215	D - 4		
IC216	F - 5		
IC217	E - 5		
IC218	F - 7		
IC219	E - 7		
IC220	D - 7		

DR-21 (TAPE/HUMID SENSOR) (MOTOR/SOLENOID DRIVER)



CP1	G - 7	Q1	B - 8
		Q2	B - 7
D1	C - 7	Q3	B - 7
D2	C - 7	Q4	A - 8
D3	B - 6	Q5	A - 7
D4	B - 6	Q6	A - 7
D5	B - 2	Q7	B - 3
D6	B - 2	Q8	B - 3
D7	B - 2	Q9	B - 3
D8	B - 4	Q10	B - 2
D9	B - 4	Q11	B - 2
D10	B - 4	Q12	B - 2
D11	B - 2	Q13	B - 1
D12	B - 3	Q14	B - 1
D13	B - 5	Q15	C - 2
D14	B - 8	Q16	B - 2
D207	D - 4	Q17	C - 2
D208	D - 5	Q18	B - 1
D209	E - 1	Q19	A - 6
D210	F - 2	Q213	H - 5
D211	D - 1	Q214	G - 5
D212	D - 1	Q215	G - 5
D213	D - 1	Q216	G - 6
D214	D - 1	Q217	G - 2
D215	F - 2		
D216	F - 2	RB201	F - 3
D217	F - 2	RB202	C - 7
D218	D - 2	RB203	D - 6
D219	D - 2		
D220	D - 2	RV1	B - 3
D221	D - 2	RV2	A - 6
D222	G - 3	RV3	A - 5
D223	G - 3	RV4	A - 3
D224	G - 3	RV201	F - 6
D225	G - 3	RV202	D - 6
D226	G - 6	RV203	F - 6
D227	H - 3		
		TP1	B - 1
E1	A - 7	TP2	B - 4
E2	B - 3	TP3	B - 4
E3	C - 1	TP4	B - 3
E201	H - 8	TP5	B - 2
E202	G - 1	TP6	B - 1
		TP7	B - 8
IC1	C - 1	TP8	B - 8
IC2	B - 2	TP9	C - 6
IC3	A - 2	TP10	B - 6
IC4	C - 3	TP11	B - 1
IC5	B - 3	TP12	B - 6
IC6	A - 3	TP13	B - 5
IC7	C - 4	TP14	A - 1
IC8	B - 4	TP15	A - 7
IC9	A - 4	TP201	F - 6
IC10	C - 5	TP202	E - 6
IC11	B - 5	TP203	G - 8
IC12	B - 5	TP204	H - 2
IC13	B - 5	TP205	G - 2
IC14	B - 5		
IC15	A - 5		
IC16	B - 6		
IC17	A - 6		
IC18	B - 7		
IC19	B - 7		
IC200	G - 1		
IC201	F - 1		
IC202	E - 1		
IC203	D - 1		
IC204	H - 2		
IC205	E - 2		
IC206	D - 2		
IC207	H - 3		
IC208	F - 3		
IC209	E - 3		
IC210	D - 3		
IC211	H - 4		
IC212	G - 4		
IC213	F - 4		
IC214	E - 4		
IC215	D - 4		
IC216	F - 5		
IC217	E - 5		
IC218	F - 7		
IC219	E - 7		
IC220	D - 7		

DR-21 – COMPONENT SIDE –
1-611-527-13
BVW-40
BVW-40P
BVW-40S

DR-21 (2/2) (TAPE/HUMID SENSOR) (MOTOR/SOLENOID DRIVER)

Ref. NO.	Type	Pin NO. GND	5V	12V	15V
IC200	TC4071BP	7		14	
IC201	SN74LS37N	7	14		
IC202	M54523P	8			9
IC203	M54543L	5 *			19
IC204	TC4001BP	7	14		
IC205	M54529AP	7	14		
IC206	M54543L	5 *			19
IC207	TC4049BP	8	1		
IC208	M54529AP	7	14		
IC209	MC14094BCP, MSM4094RS	8	16		
IC210	TC4050BP	8	1		
IC211	M54532P	4 * 5 * 12, 13			18
IC212	M54523P	8 *			9
IC213	TC4049BP	8	1		
IC214	MC14094BCP, MSM4094RS	8	16		
IC215	MC14584BCP, μPD4584BC	7	14		
IC216	TC4021BP	8	16		
IC217	MC14584BCP, μPD4584BC	7	14		
IC218	BX342	4		1,10	
IC219	BX343	7		13	
IC220	BX342	4		1,10	

NOTE *: UNREG GND

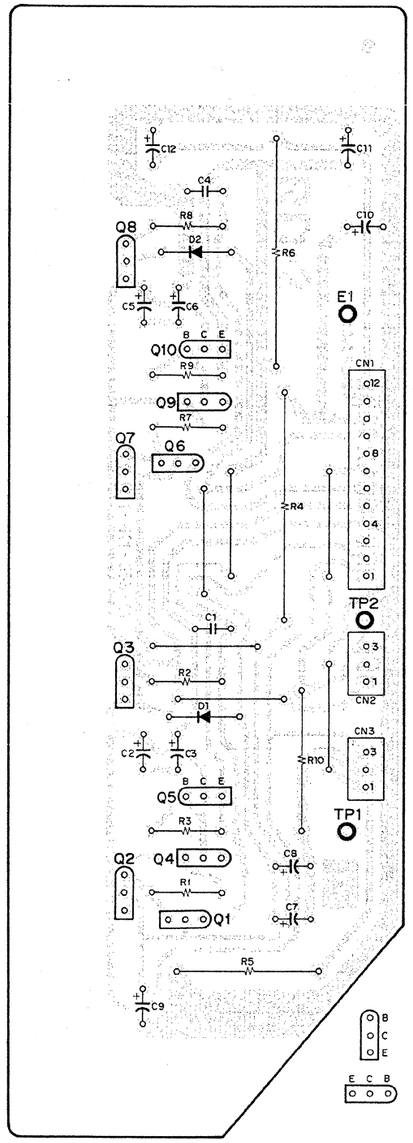
Ref. NO.	Type	Pin NO. GND	5V	12V	15V
IC200	TC4071BP	7		14	
IC201	SN74LS37N	7	14		
IC202	M54523P	8			9
IC203	M54543L	5 *			1,9
IC204	TC4001BP	7	14		
IC205	M54529AP	7	14		
IC206	M54543L	5 *			1,9
IC207	TC4049BP	8	1		
IC208	M54529AP	7	14		
IC209	MC14094BCP, MSM4094RS	8	16		
IC210	TC4050BP	8	1		
IC211	M54532P	4,5 * 12,13 *			1,8
IC212	M54523P	5 *			9
IC213	TC4049BP	8	1		
IC214	MC14094BCP, MSM4094RS	8	16		
IC215	MC14584BCP, μPD4584BC	7	14		
IC216	TC4021BP	8	16		
IC217	MC14584BCP, μPD4584BC	7	14		
IC218	BX342	4		1,10	
IC219	BX343	7		13	
IC220	BX342	4		1,10	

NOTE *; UNREG GND

DR-21(2/2)

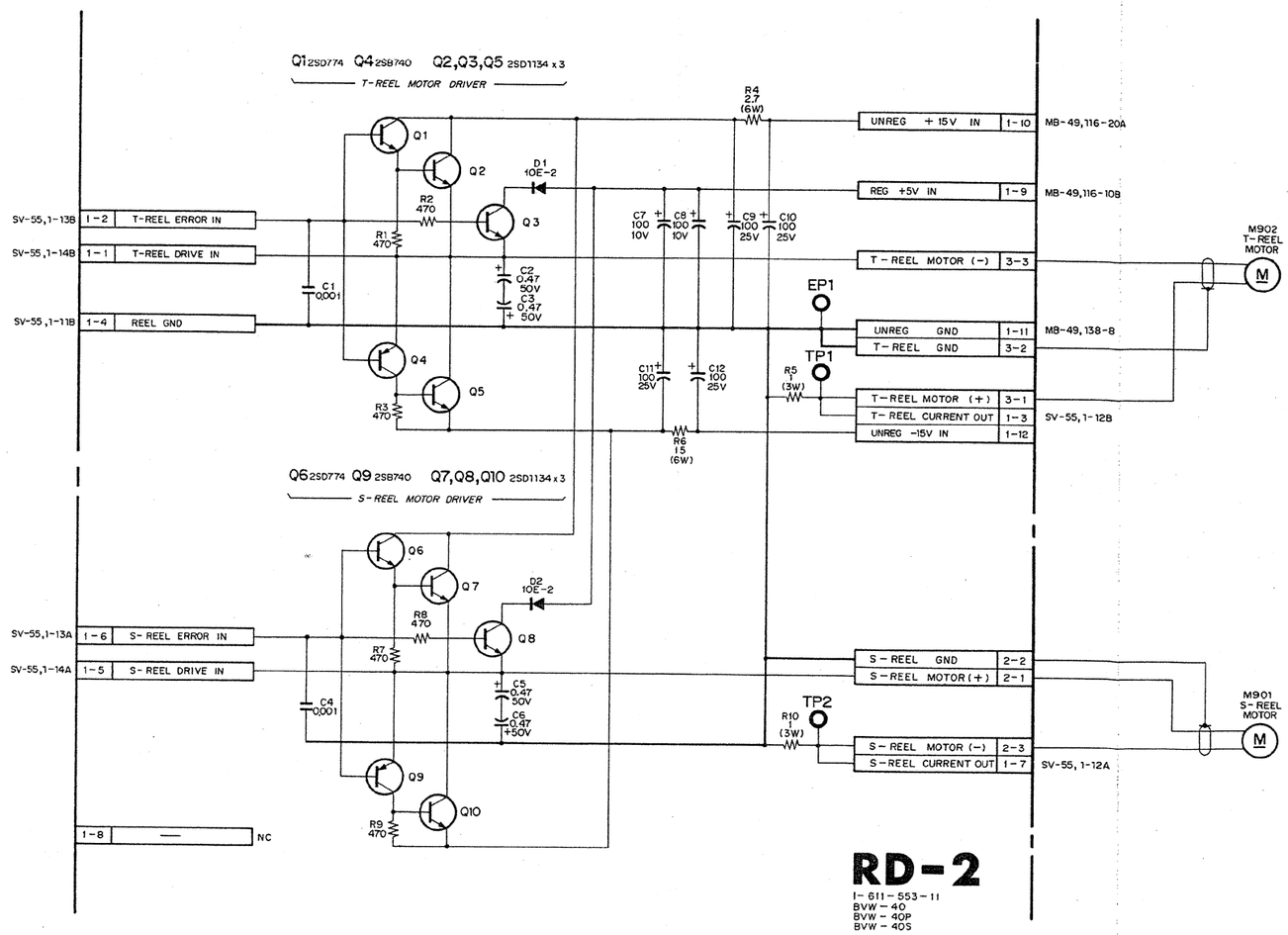
1-611-527-13
8VW-40
8VW-40P
8VW-40S

RD-2 (REEL MOTOR DRIVER)



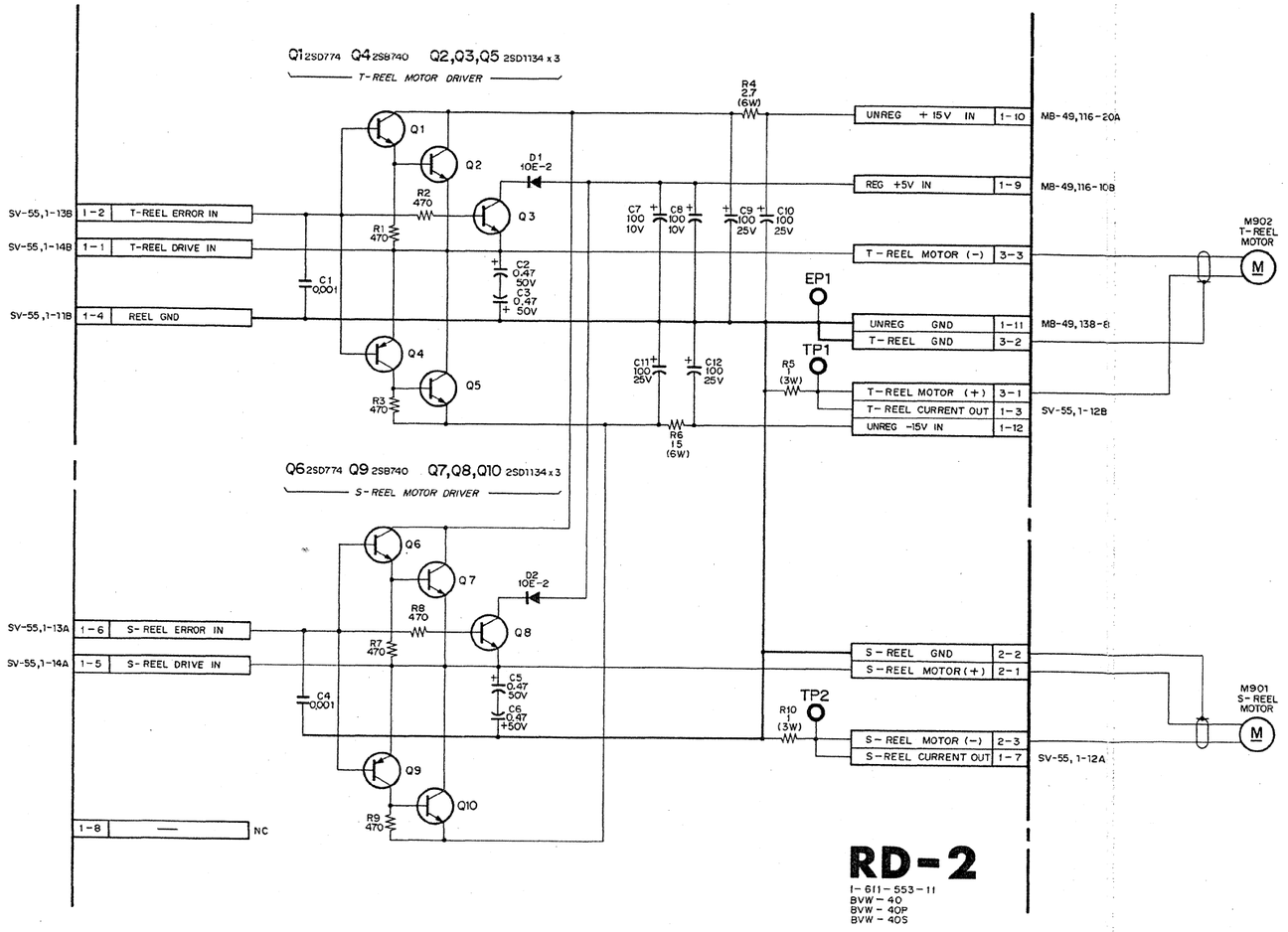
RD-2 -SOLDERING SIDE-

1-611-553-11
BVW-40
BVW-40P
BVW-40S

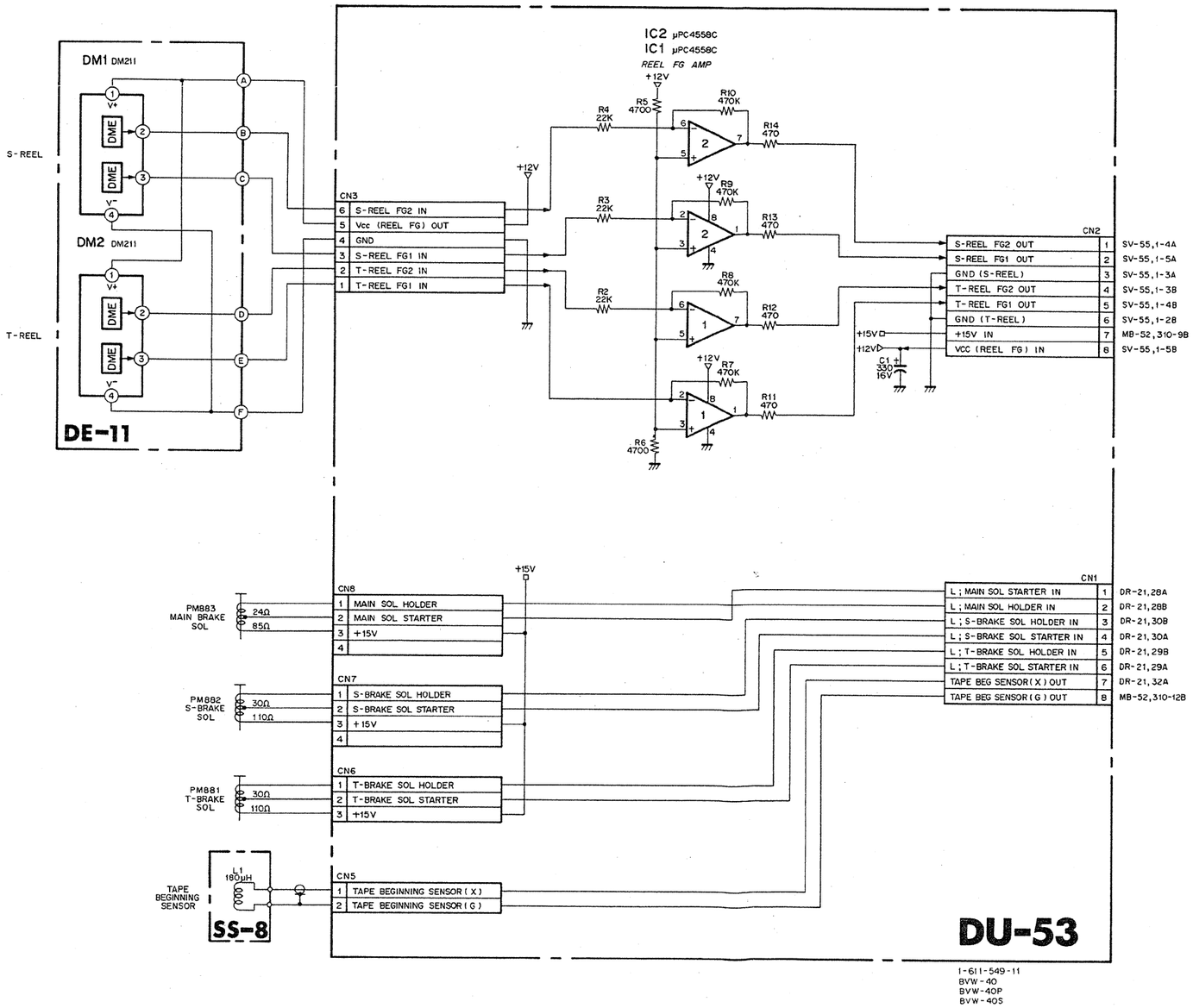


RD-2

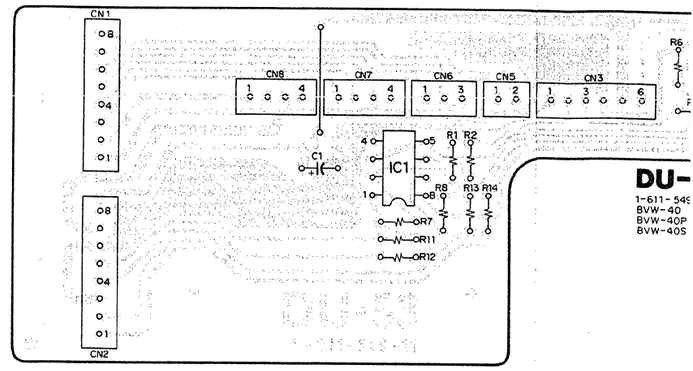
1-611-553-11
BVW-40
BVW-40P
BVW-40S


Q1 2SD774 Q4 2SB740 Q2,Q3,Q5 2SD1134 x 3
T-REEL MOTOR DRIVER
Q6 2SD774 Q9 2SB740 Q7,Q8,Q10 2SD1134 x 3
S-REEL MOTOR DRIVER
SV-55,1-13B 1-2 T-REEL ERROR IN
SV-55,1-14B 1-1 T-REEL DRIVE IN
SV-55,1-11B 1-4 REEL GND
SV-55,1-13A 1-6 S-REEL ERROR IN
SV-55,1-14A 1-5 S-REEL DRIVE IN
1-8 — NC
R1 470
R2 470
R3 470
R4 27 (6W)
R5 1 (3W)
R6 15 (6W)
R7 470
R8 470
R9 470
R10 1 (3W)
C1 0.001
C2 0.47 50V
C3 0.47 50V
C4 0.001
C5 0.47 50V
C6 0.47 50V
C7 100 10V
C8 100 10V
C9 100 25V
C10 100 25V
C11 100 25V
C12 100 25V
D1 10E-2
D2 10E-2
EP1
TP1
TP2
UNREG +15V IN 1-10
REG +5V IN 1-9
T-REEL MOTOR (-) 3-3
UNREG GND 1-11
T-REEL GND 3-2
T-REEL MOTOR (+) 3-1
T-REEL CURRENT OUT 1-3
UNREG -15V IN 1-12
S-REEL GND 2-2
S-REEL MOTOR (+) 2-1
S-REEL MOTOR (-) 2-3
S-REEL CURRENT OUT 1-7
MB-49,116-20A
MB-49,116-10B
MB-49,138-8
SV-55,1-12B
SV-55,1-12A
M902 T-REEL MOTOR
M901 S-REEL MOTOR
M
RD-2
1-611-553-11
BVW-40
BVW-40P
BVW-40S

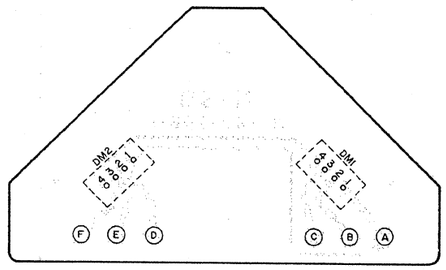
DU-53 (REEL FG AMPLIFIER)
DE-11
SS-8



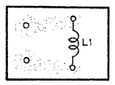
1-611-549-11
BVW-40
BVW-40P
BVW-40S



1-611-549
BVW-40
BVW-40P
BVW-40S

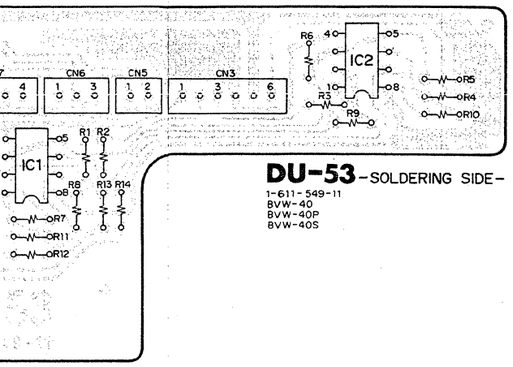


DE-11 -SOLDERING SIDE-
1-608-051-11
BVW-40
BVW-40P
BVW-40S



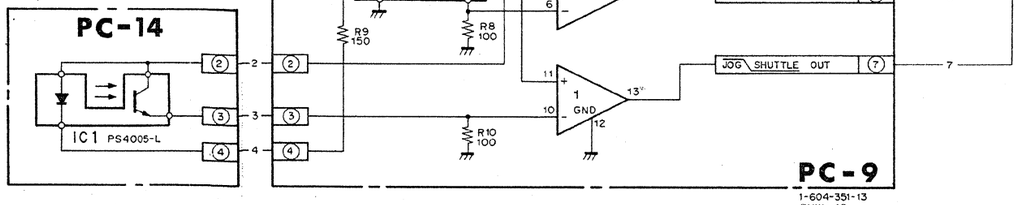
SS-8 -SOLDERING SIDE-
1-586-946-12
BVW-40
BVW-40P
BVW-40S

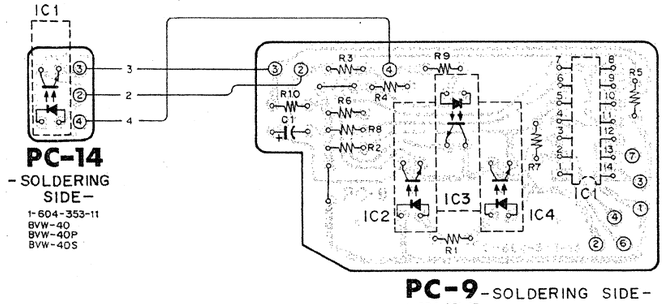
PC-9 (SEARCH DIAL)
PC-14



DU-53 -SOLDERING SIDE-
1-611-549-11
BVW-40
BVW-40P
BVW-40S

NG SIDE-





PC-14
- SOLDERING SIDE-
1-604-353-11
BVW-40
BVW-40P
BVW-40S

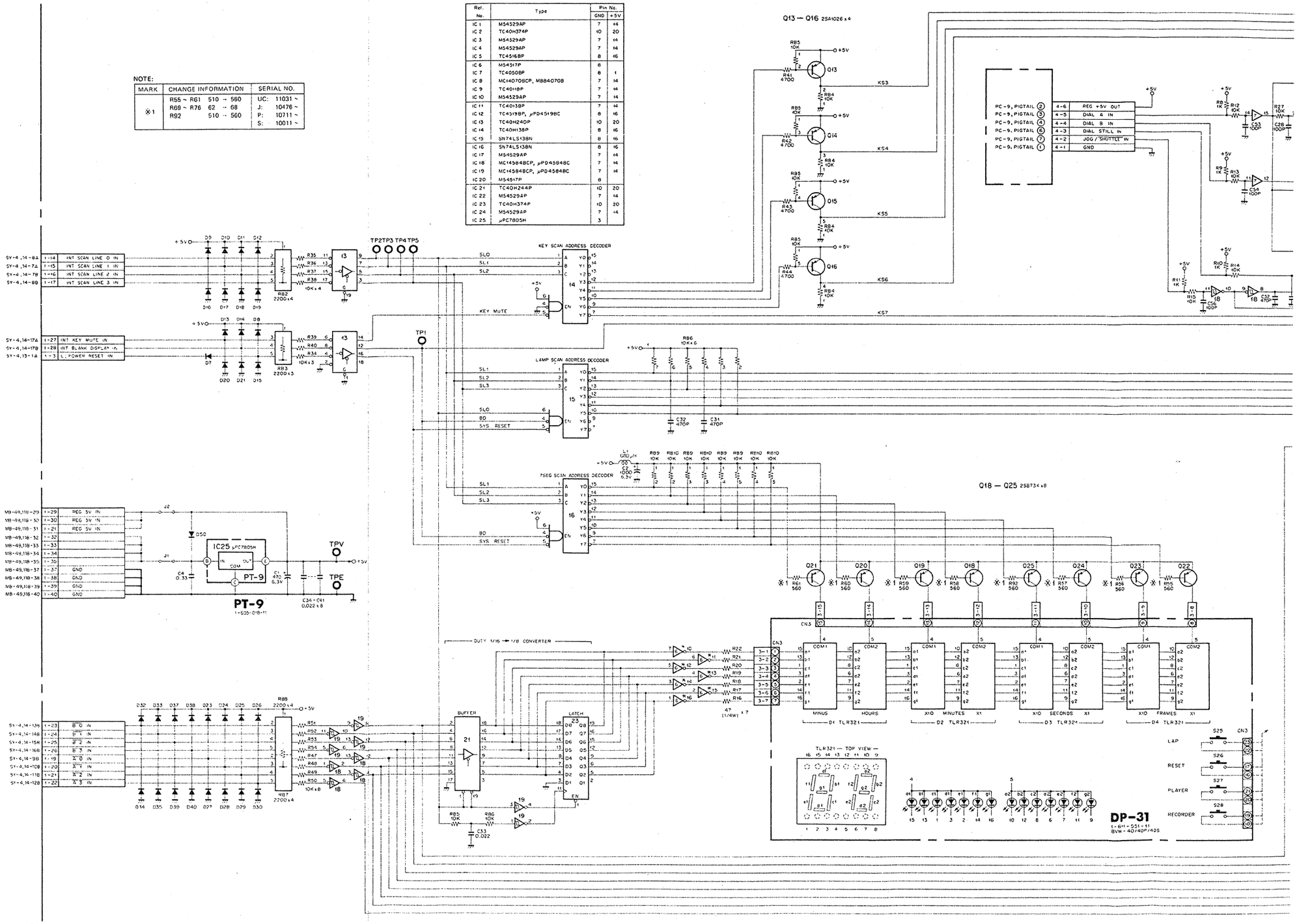
PC-9 -SOLDERING SIDE-
1-604-351-13
BVW-40
BVW-40P
BVW-40S

KY-45 (KEY PANEL/TIME COUNTER DISPLAY)
KY-47
DP-31
PT-9

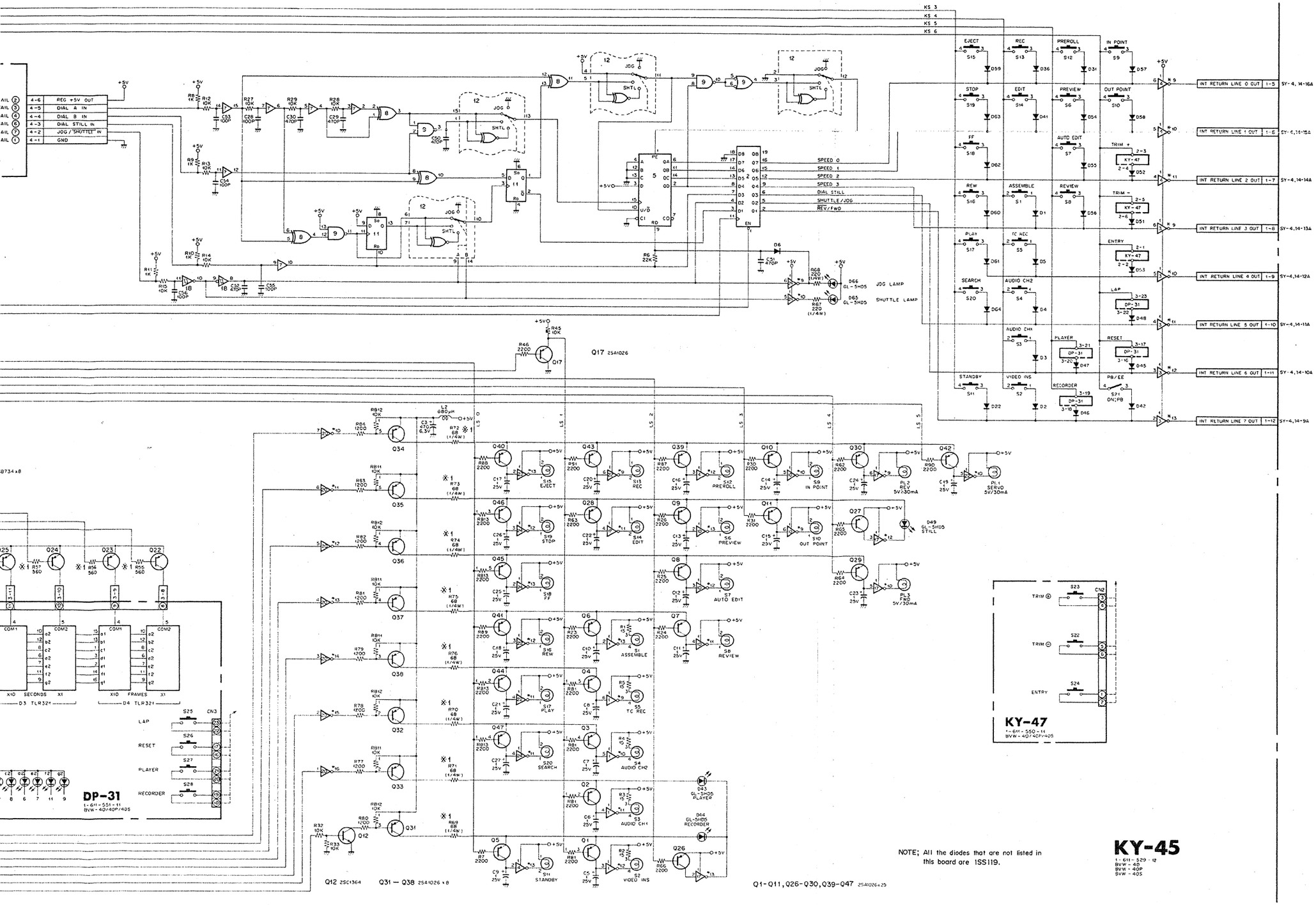
NOTE:

MARK	CHANGE INFORMATION		SERIAL NO.
※1	R55 ~ R61	510 → 560	UC: 11031 ~
	R69 ~ R76	62 → 68	J: 10476 ~
	R92	510 → 560	P: 10711 ~
			S: 10011 ~

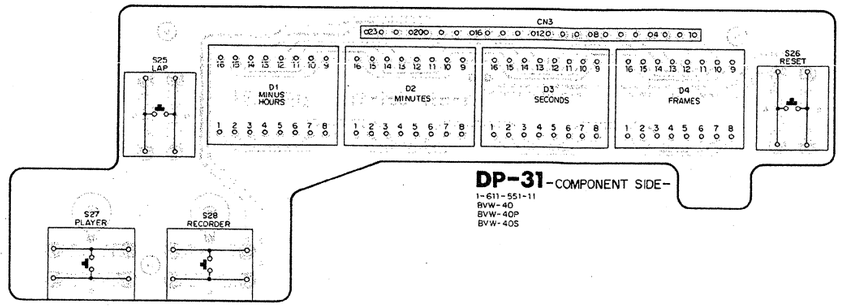
Ref. No.	Type	Pin No. GND	Pin No. +5V
IC 1	M54529AP	7	14
IC 2	TC40H374P	10	20
IC 3	M54529AP	7	14
IC 4	M54529AP	7	14
IC 5	TC4516BP	8	16
IC 6	M54517P	8	
IC 7	TC4050BP	8	1
IC 8	MC14070BCP, M8840708	7	14
IC 9	TC40H86P	7	14
IC 10	M54529AP	7	14
IC 11	TC40H138P	7	14
IC 12	TC45198P, μPD45198C	8	16
IC 13	TC40H240P	10	20
IC 14	TC40H138P	8	16
IC 15	SN74LS138N	8	16
IC 16	SN74LS138N	8	16
IC 17	M54529AP	7	14
IC 18	MC14584BCP, μPD4584BC	7	14
IC 19	MC14584BCP, μPD4584BC	7	14
IC 20	M54517P	8	
IC 21	TC40H244P	10	20
IC 22	M54529AP	7	14
IC 23	TC40H374P	10	20
IC 24	M54529AP	7	14
IC 25	μPC7805H	3	



KY-45, KY-47, DP-31, PT-9

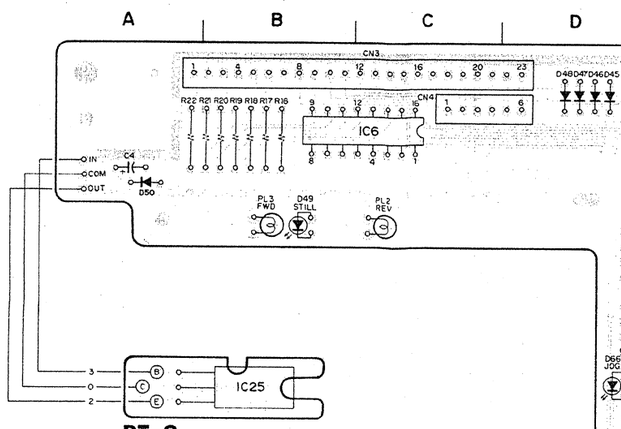


KY-45 (KEY PANEL/TIME COUNTER DISPLAY)
KY-47
DP-31
PT-9

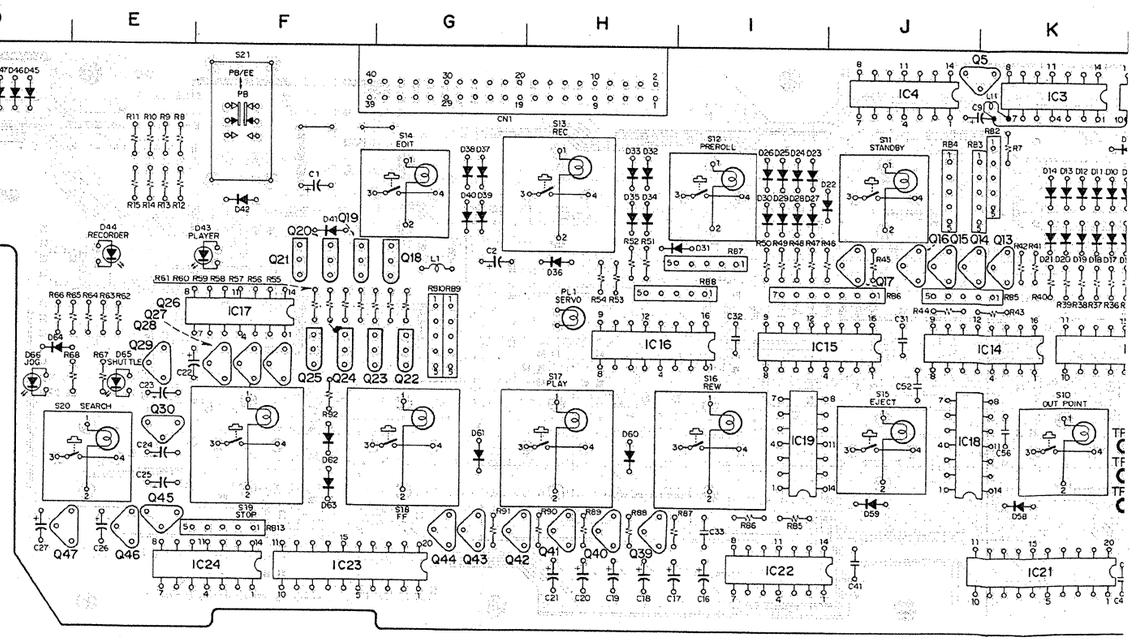


DP-31 -COMPONENT SIDE-
1-611-551-11
BVW-40
BVW-40P
BVW-40S

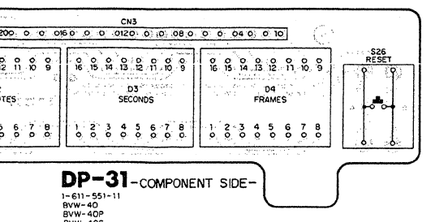
CN1	G	1	D45	D	1	Q1	O	1	RB1	O	1
CN2	L	2	D46	D	1	Q2	O	1	RB2	K	1
CN3	C	1	D47	D	1	Q3	N	1	RB3	J	1
CN4	C	1	D48	D	1	Q4	N	1	RB4	J	1
			D49	B	2	Q5	J	1	RB5	J	2
D1	P	1	D50	A	1	Q6	P	2	RB6	J	2
D2	O	2	D51	L	2	Q7	P	2	RB7	I	2
D3	N	2	D52	L	2	Q8	P	2	RB8	I	2
D4	N	1	D53	L	3	Q9	P	3	RB9	G	2
D5	M	1	D54	O	3	Q10	O	3	RB10	G	2
D6	L	1	D55	N	3	Q11	N	3	RB11	N	4
D7	K	1	D56	M	3	Q12	M	3	RB12	M	4
D8	L	1	D57	L	4	Q13	K	2	RB13	F	4
D9	K	1	D58	K	4	Q14	J	2			
D10	K	1	D59	J	4	Q15	J	2	S1	P	1
D11	K	1	D60	H	3	Q16	J	2	S2	O	1
D12	K	1	D61	G	3	Q17	J	2	S3	N	1
D13	K	1	D62	F	3	Q18	G	2	S4	N	1
D14	K	1	D63	F	4	Q19	F	2	S5	M	1
D15	L	2	D64	D	3	Q20	F	2	S6	P	3
D16	K	2	D65	E	3	Q21	F	2	S7	N	3
D17	K	2	D66	D	3	Q22	G	3	S8	M	3
D18	K	2				Q23	G	3	S9	L	3
D19	K	2	IC1	N	1	Q24	F	3	S10	K	3
D20	K	2	IC2	L	1	Q25	F	3	S11	J	1
D21	K	2	IC3	K	1	Q26	F	3	S12	I	1
D22	I	2	IC4	J	1	Q27	F	3	S13	H	1
D23	I	1	IC5	L	2	Q28	F	3	S14	G	1
D24	I	1	IC6	C	1	Q29	E	3	S15	J	3
D25	I	1	IC7	O	2	Q30	E	3	S16	I	3
D26	I	1	IC8	N	2	Q31	O	4	S17	H	3
D27	I	2	IC9	M	2	Q32	O	4	S18	G	3
D28	I	2	IC10	O	3	Q33	O	4	S19	F	3
D29	I	2	IC11	N	3	Q34	O	4	S20	E	3
D30	I	2	IC12	L	3	Q35	N	4	S21	F	1
D31	I	2	IC13	K	3	Q36	N	4			
D32	H	1	IC14	K	3	Q37	N	4	TP1	L	3
D33	H	1	IC15	J	3	Q38	N	4	TP2	L	4
D34	H	2	IC16	H	3	Q39	H	4	TP3	L	3
D35	H	2	IC17	F	2	Q40	H	4	TP4	L	3
D36	H	2	IC18	J	3	Q41	H	4	TP5	L	3
D37	G	1	IC19	I	3	Q42	G	4	TPE	O	1
D38	G	1	IC20	L	4	Q43	G	4	TPV	O	1
D39	G	2	IC21	K	4	Q44	G	4			
D40	G	2	IC22	I	4	Q45	E	4			
D41	F	2	IC23	F	4	Q46	E	4			
D42	F	2	IC24	F	4	Q47	D	4			
D43	F	2	IC25	A	1						
D44	E	2									



PT-9 -SOLDERING SIDE-
1-605-018-11
BVW-40
BVW-40P
BVW-40S

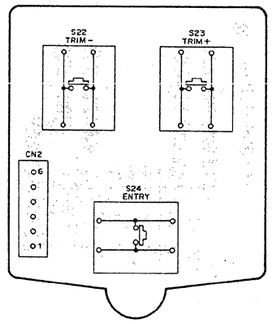


KY-45, KY-47, DP-31, PT-9



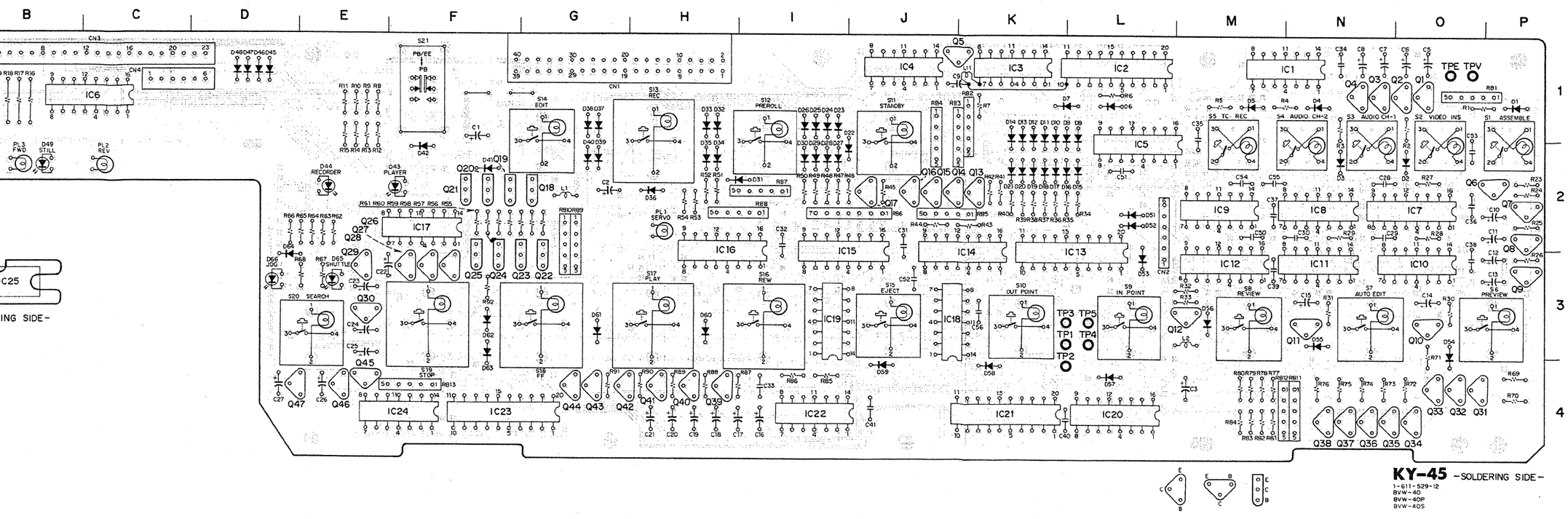
DP-31 –COMPONENT SIDE–

1-611-551-11
BVW-40
BVW-40P
BVW-40S



KY-47 –COMPONENT SIDE–

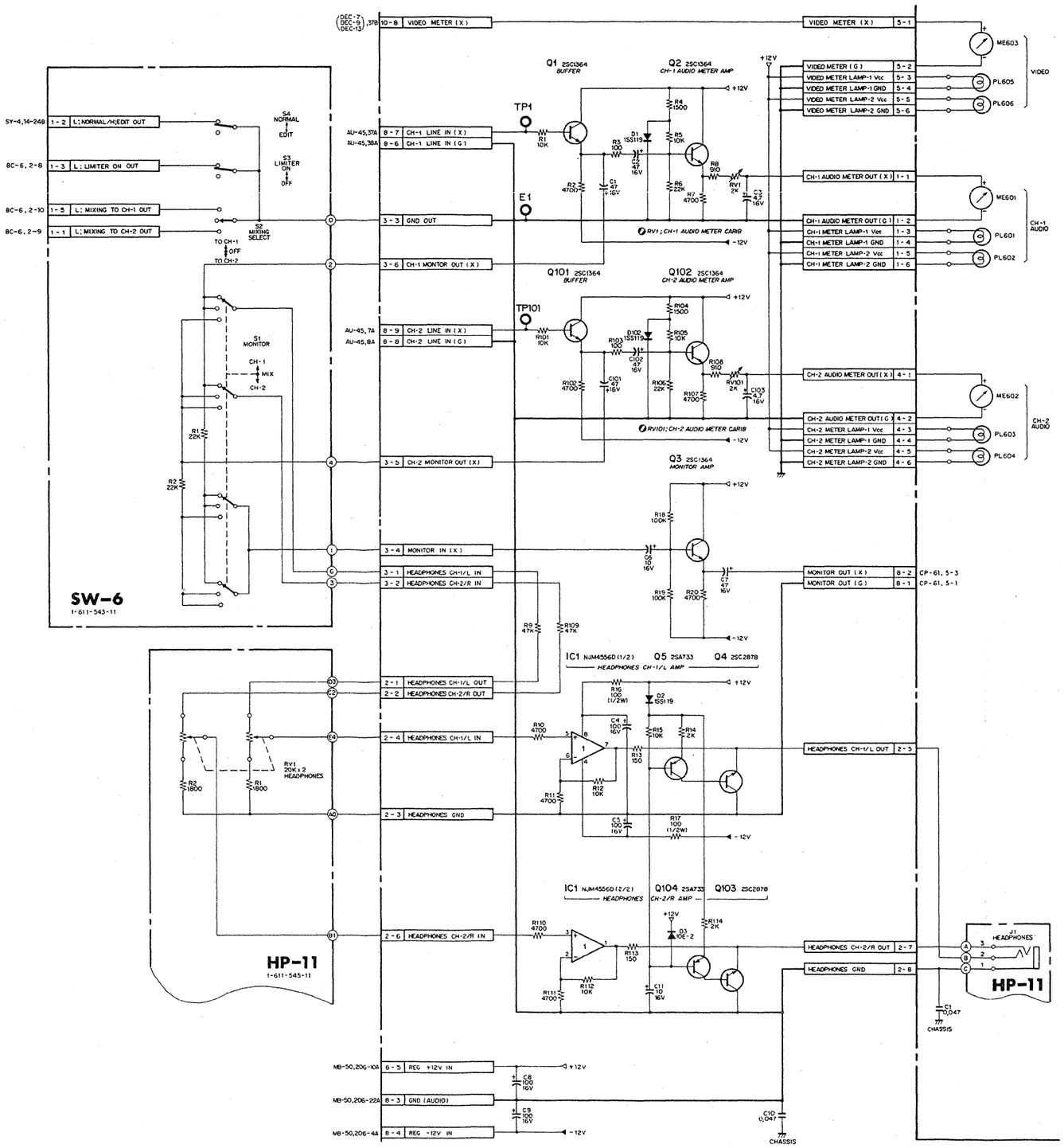
1-611-550-11
BVW-40
BVW-40P
BVW-40S

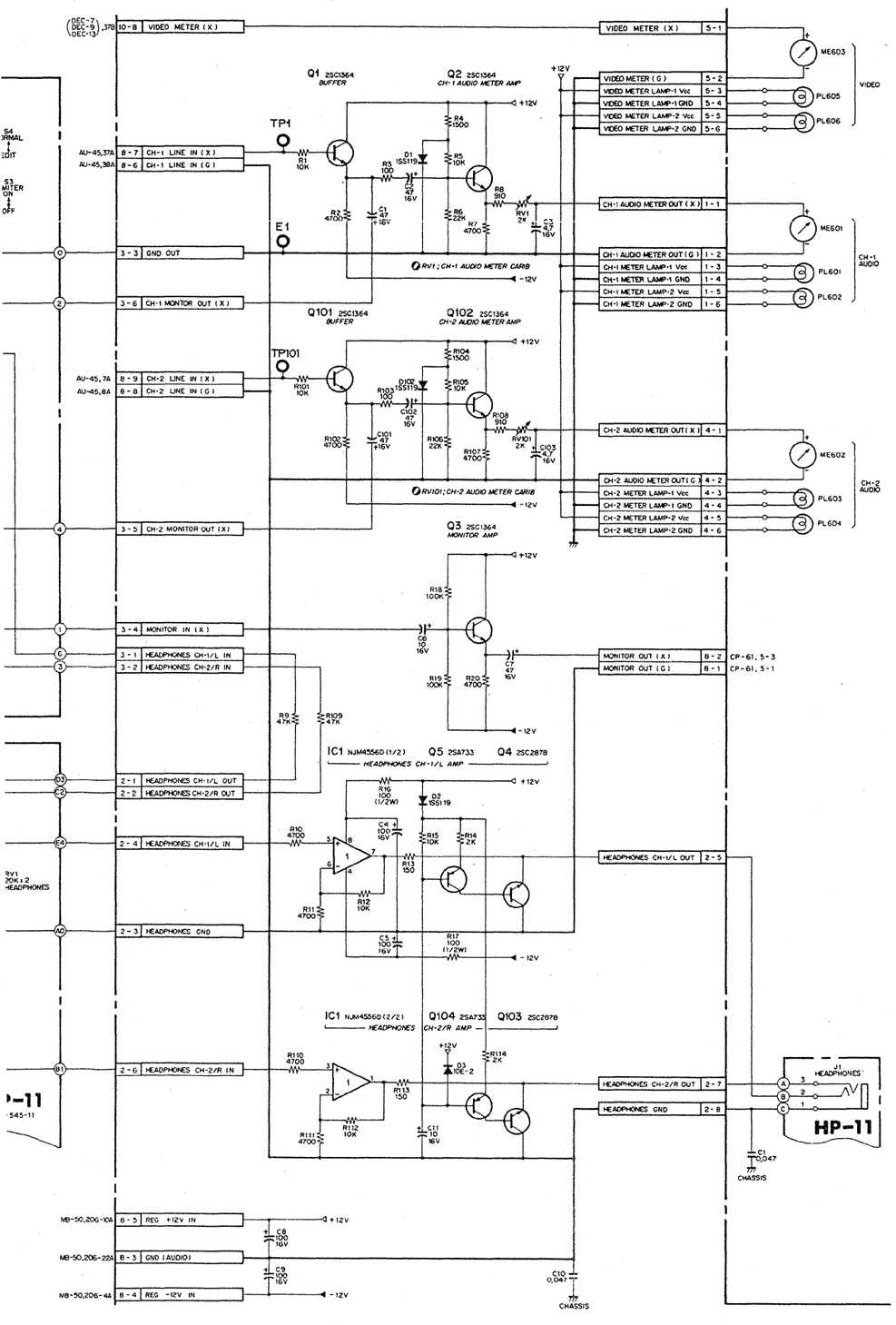


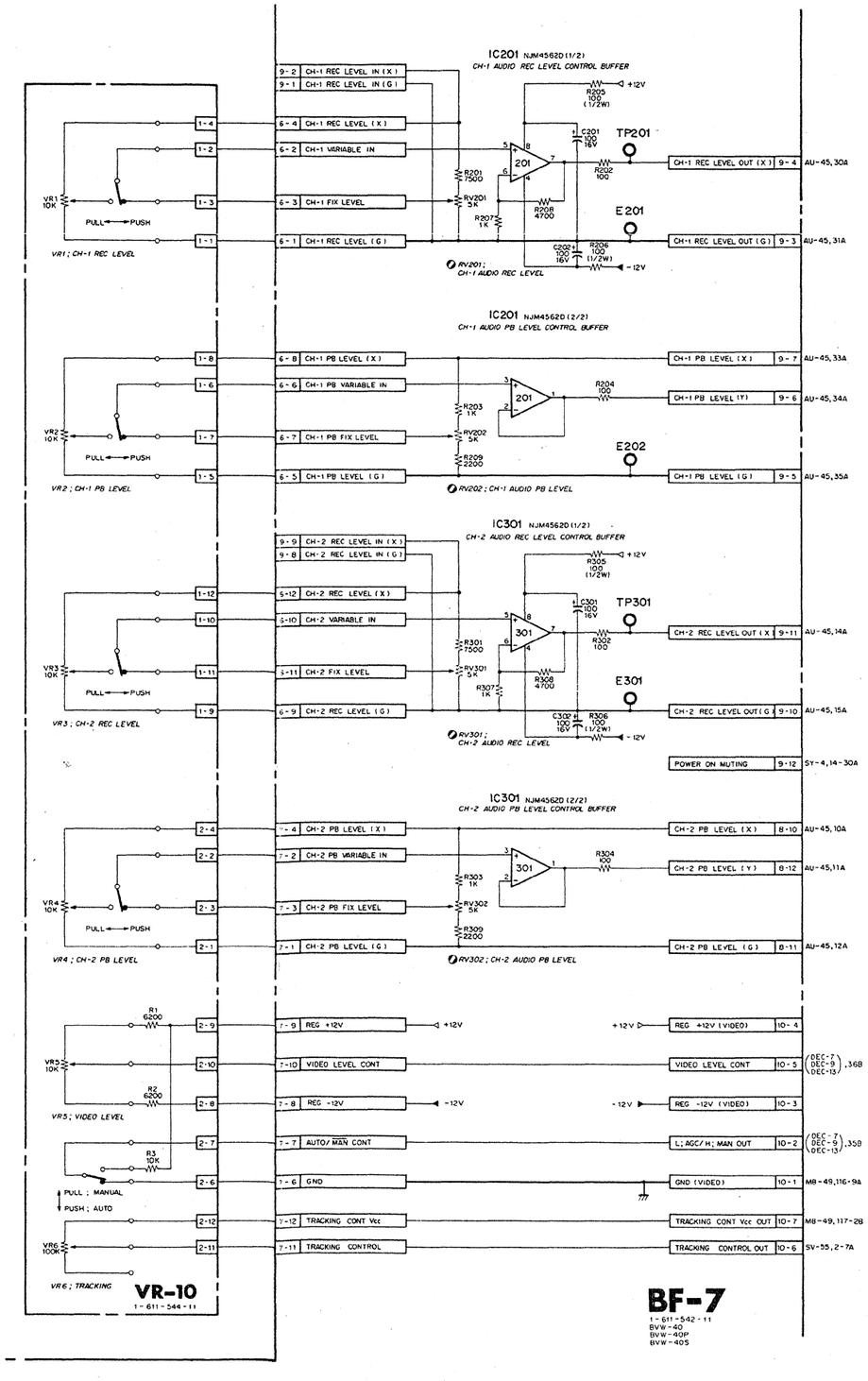
KY-45 –SOLDERING SIDE–

1-611-529-12
BVW-40
BVW-40P
BVW-40S

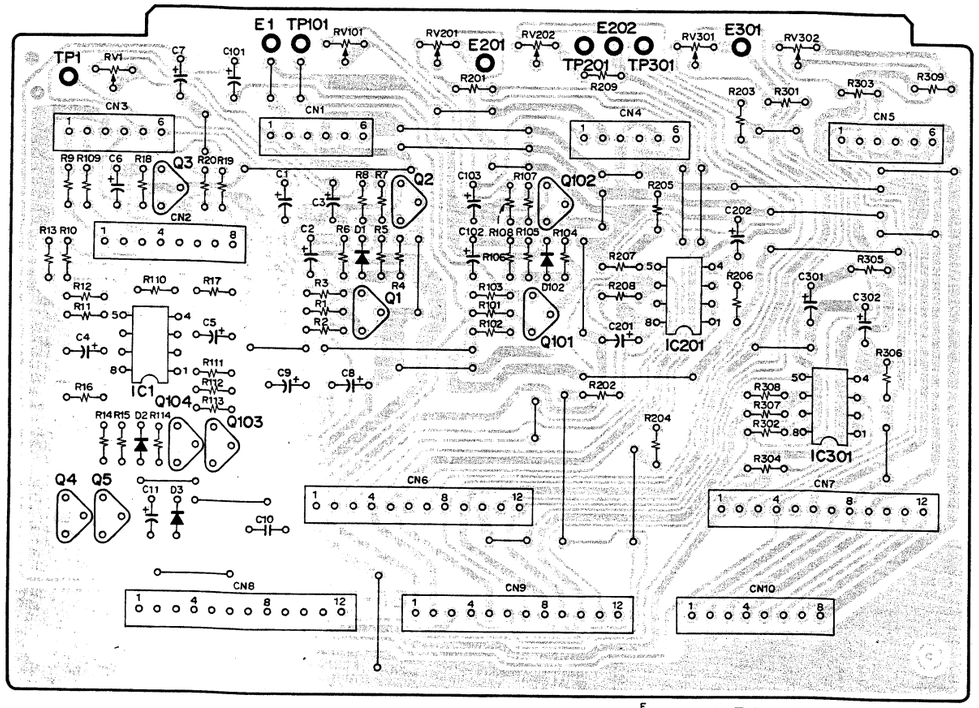
BF-7 (FRONT PANEL)
HP-11
SW-6
VR-10



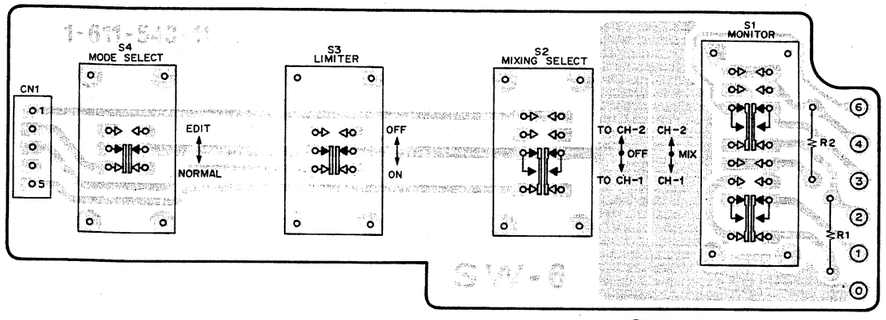

VIDEO METER (X) 5-1
VIDEO METER (G) 5-2
VIDEO METER LAMP-1 Vcc 5-3
VIDEO METER LAMP-1 GND 5-4
VIDEO METER LAMP-2 Vcc 5-5
VIDEO METER LAMP-2 GND 5-6
ME603
PL605
PL606
VIDEO
CH-1 AUDIO METER OUT (X) 1-1
CH-1 AUDIO METER OUT (G) 1-2
CH-1 METER LAMP-1 Vcc 1-3
CH-1 METER LAMP-1 GND 1-4
CH-1 METER LAMP-2 Vcc 1-5
CH-1 METER LAMP-2 GND 1-6
ME601
PL601
PL602
CH-1 AUDIO
CH-2 AUDIO METER OUT (X) 4-1
CH-2 AUDIO METER OUT (G) 4-2
CH-2 METER LAMP-1 Vcc 4-3
CH-2 METER LAMP-1 GND 4-4
CH-2 METER LAMP-2 Vcc 4-5
CH-2 METER LAMP-2 GND 4-6
ME602
PL603
PL604
CH-2 AUDIO
MONITOR OUT (X) 8-2 CP-61, 5-3
MONITOR OUT (G) 8-1 CP-61, 5-1
HEADPHONES CH-1/L OUT 2-5
HEADPHONES CH-2/R OUT 2-7
HEADPHONES GND 2-8
HEADPHONES
HP-11
CHASSIS
Q1 2SC1364 BUFFER
Q2 2SC1364 CH-1 AUDIO METER AMP
Q101 2SC1364 BUFFER
Q102 2SC1364 CH-2 AUDIO METER AMP
Q3 2SC1364 MONITOR AMP
IC1 NJM4556D (1/2) Q5 2SA733 Q4 2SC2878 HEADPHONES CH-1/L AMP
IC1 NJM4556D (2/2) Q104 2SA733 Q103 2SC2878 HEADPHONES CH-2/R AMP
RV1 ; CH-1 AUDIO METER CARIB
RV101 ; CH-2 AUDIO METER CARIB
AU-45,37A 8-7 CH-1 LINE IN (X)
AU-45,38A 8-6 CH-1 LINE IN (G)
AU-45,7A 8-9 CH-2 LINE IN (X)
AU-45,8A 8-8 CH-2 LINE IN (G)
3-3 GND OUT
3-6 CH-1 MONITOR OUT (X)
3-5 CH-2 MONITOR OUT (X)
3-4 MONITOR IN (X)
3-1 HEADPHONES CH-1/L IN
3-2 HEADPHONES CH-2/R IN
2-1 HEADPHONES CH-1/L OUT
2-2 HEADPHONES CH-2/R OUT
2-4 HEADPHONES CH-1/L IN
2-3 HEADPHONES GND
2-6 HEADPHONES CH-2/R IN
MB-50,206-10A 8-5 REG +12V IN
MB-50,206-22A 8-3 GND (AUDIO)
MB-50,206-4A 8-4 REG -12V IN
+12V
-12V


IC201 NJM4562D (1/2) CH-1 AUDIO REC LEVEL CONTROL BUFFER
9-2 CH-1 REC LEVEL IN (X)
9-1 CH-1 REC LEVEL IN (G)
6-4 CH-1 REC LEVEL (X)
6-2 CH-1 VARIABLE IN
6-3 CH-1 FIX LEVEL
6-1 CH-1 REC LEVEL (G)
VR1 10K
PULL PUSH
VR1 ; CH-1 REC LEVEL
R201 7500
RV201 5K
R207 1K
R208 4700
RV201 ; CH-1 AUDIO REC LEVEL
TP201
E201
CH-1 REC LEVEL OUT (X) 9-4 AU-45,30A
CH-1 REC LEVEL OUT (G) 9-3 AU-45,31A
IC201 NJM4562D (2/2) CH-1 AUDIO PB LEVEL CONTROL BUFFER
6-8 CH-1 PB LEVEL (X)
6-6 CH-1 PB VARIABLE IN
6-7 CH-1 PB FIX LEVEL
6-5 CH-1 PB LEVEL (G)
VR2 10K
VR2 ; CH-1 PB LEVEL
R203 1K
RV202 5K
R209 2200
RV202 ; CH-1 AUDIO PB LEVEL
E202
CH-1 PB LEVEL (X) 9-7 AU-45,33A
CH-1 PB LEVEL (Y) 9-6 AU-45,34A
CH-1 PB LEVEL (G) 9-5 AU-45,35A
IC301 NJM4562D (1/2) CH-2 AUDIO REC LEVEL CONTROL BUFFER
9-9 CH-2 REC LEVEL IN (X)
9-8 CH-2 REC LEVEL IN (G)
5-12 CH-2 REC LEVEL (X)
5-10 CH-2 VARIABLE IN
5-11 CH-2 FIX LEVEL
6-9 CH-2 REC LEVEL (G)
VR3 10K
VR3 ; CH-2 REC LEVEL
R301 7500
RV301 5K
R307 1K
R308 4700
RV301 ; CH-2 AUDIO REC LEVEL
TP301
E301
CH-2 REC LEVEL OUT (X) 9-11 AU-45,14A
CH-2 REC LEVEL OUT (G) 9-10 AU-45,15A
POWER ON MUTING 9-12 SY-4,14-30A
IC301 NJM4562D (2/2) CH-2 AUDIO PB LEVEL CONTROL BUFFER
7-4 CH-2 PB LEVEL (X)
7-2 CH-2 PB VARIABLE IN
7-3 CH-2 PB FIX LEVEL
7-1 CH-2 PB LEVEL (G)
VR4 10K
VR4 ; CH-2 PB LEVEL
R303 1K
RV302 5K
R309 2200
RV302 ; CH-2 AUDIO PB LEVEL
CH-2 PB LEVEL (X) 8-10 AU-45,10A
CH-2 PB LEVEL (Y) 8-12 AU-45,11A
CH-2 PB LEVEL (G) 8-11 AU-45,12A
R1 6200
R2 6200
R3 10K
VR5 10K
VR5 ; VIDEO LEVEL
PULL ; MANUAL
PUSH ; AUTO
VR6 100K
VR6 ; TRACKING
7-9 REG +12V
7-10 VIDEO LEVEL CONT
7-8 REG -12V
7-7 AUTO/MAN CONT
7-6 GND
7-12 TRACKING CONT Vcc
7-11 TRACKING CONTROL
REG +12V (VIDEO) 10-4
VIDEO LEVEL CONT 10-5 (DEC-7) (DEC-9) (DEC-13) ,36B
REG -12V (VIDEO) 10-3
L; AGC/H; MAN OUT 10-2 (DEC-7) (DEC-9) (DEC-13) ,35B
GND (VIDEO) 10-1 MB-49,116-9A
TRACKING CONT Vcc OUT 10-7 MB-49,117-28
TRACKING CONTROL OUT 10-6 SV-55,2-7A
VR-10
1-611-544-11
BF-7
1-611-542-11
BVW-40
BVW-40P
BVW-40S

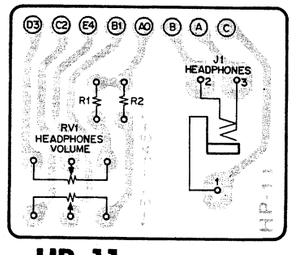
BF-7 (FRONT PANEL)
HP-11
SW-6
VR-10



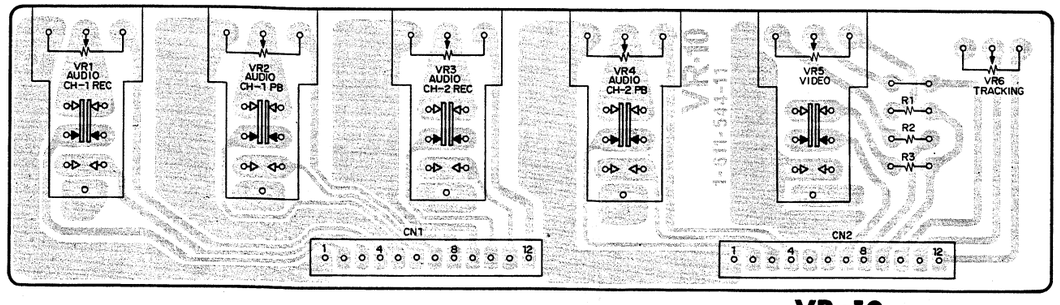
BF-7 – COMPONENT SIDE –
1-611-542-11
BVW-40
BVW-40P
BVW-40S



SW-6 – SOLDERING SIDE –
1-611-543-11
BVW-40
BVW-40P
BVW-40S

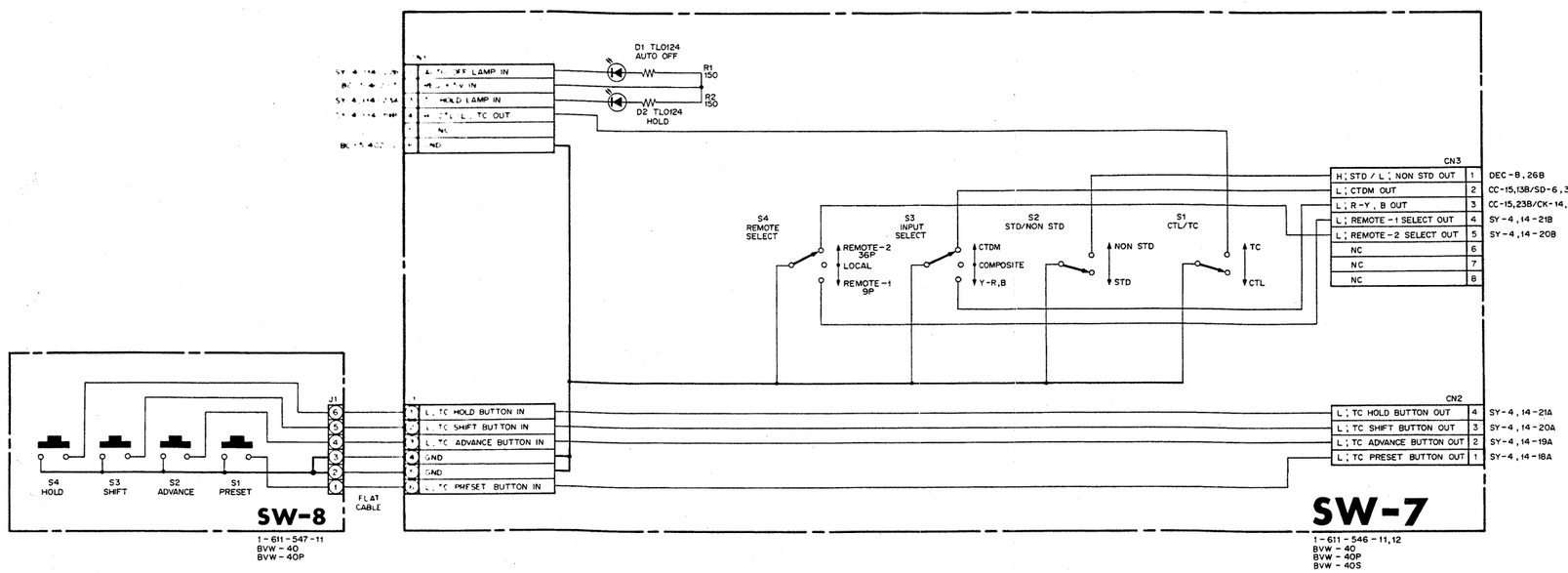


HP-11 – SOLDERING SIDE –
1-611-545-11
BVW-40
BVW-40P
BVW-40S

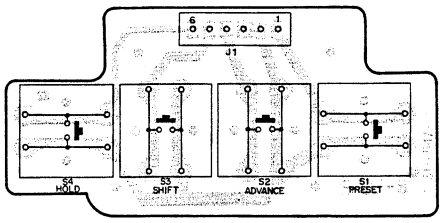


VR-10 – SOLDERING SIDE –
1-611-544-11
BVW-40
BVW-40P
BVW-40S

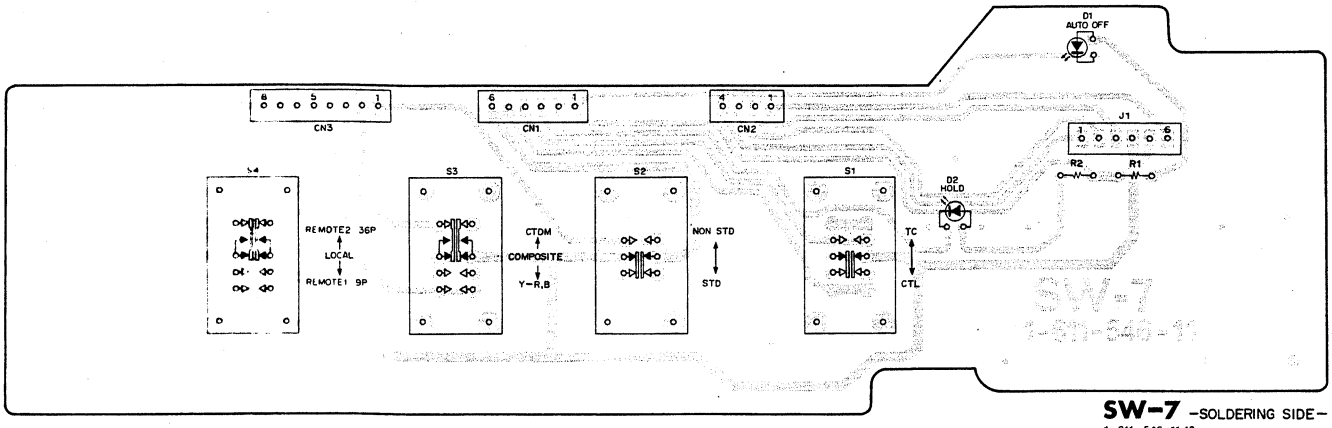
SW-7 (FRONT PANEL)
SW-8



SW-7 (FRONT PANEL)
SW-8

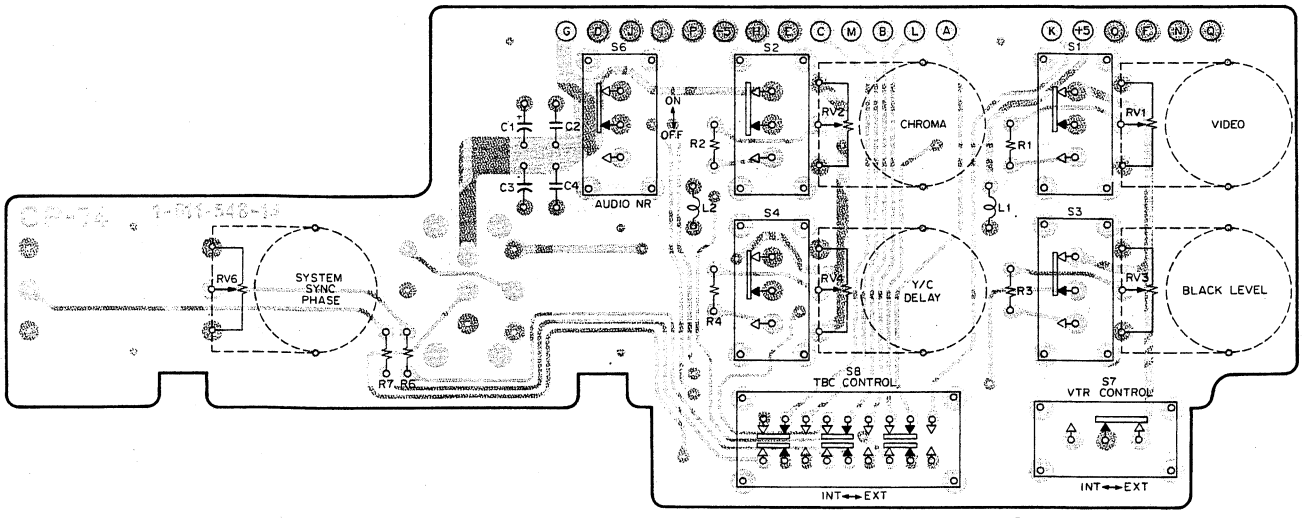


SW-8 –SOLDERING SIDE–
1-611-547-11
BVW-40
BVW-40P
BVW-40S



SW-7 –SOLDERING SIDE–
1-611-546-11,12
BVW-40
BVW-40P
BVW-40S

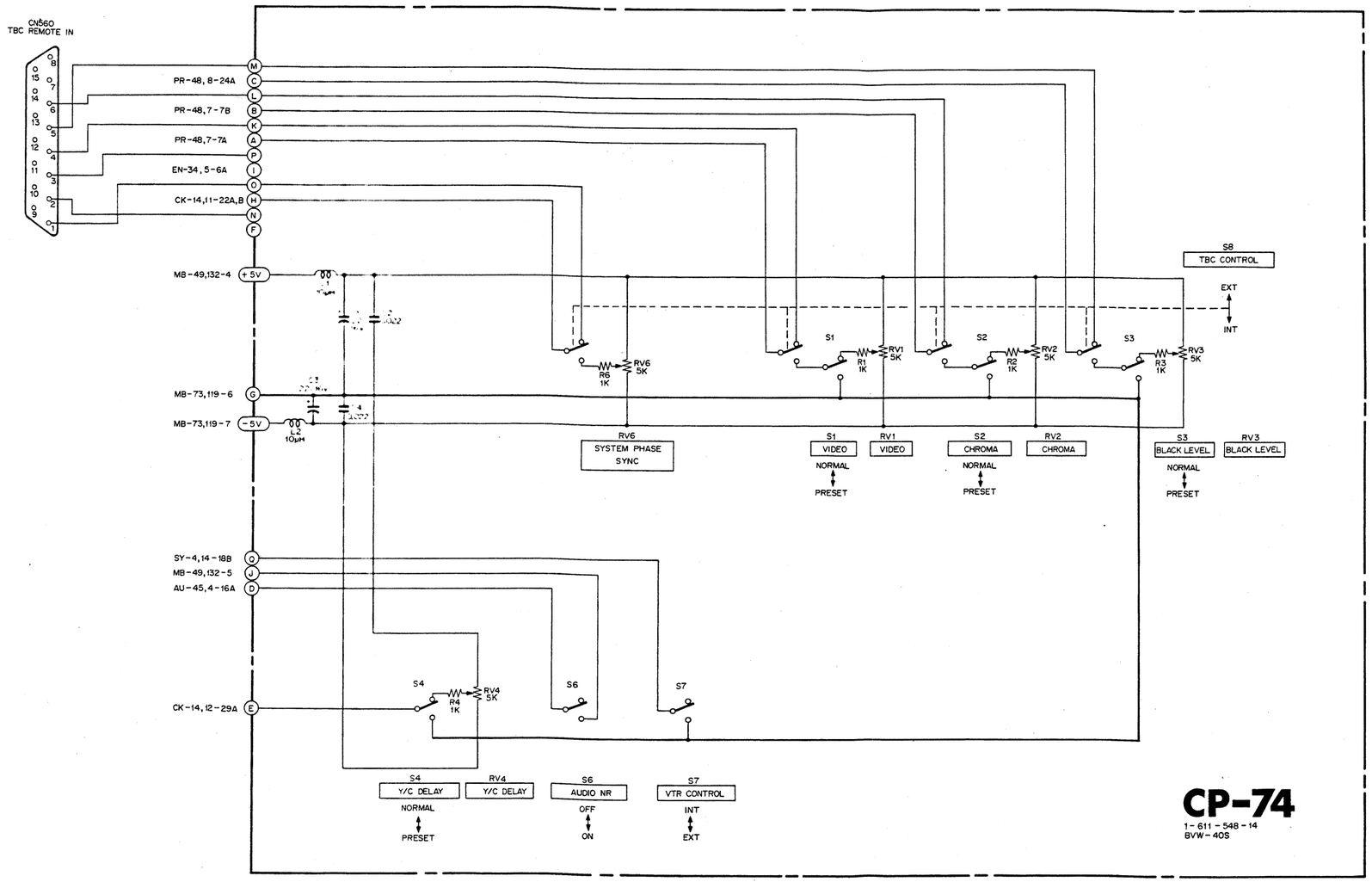
CP-74 (TBC CONTROL PANEL)



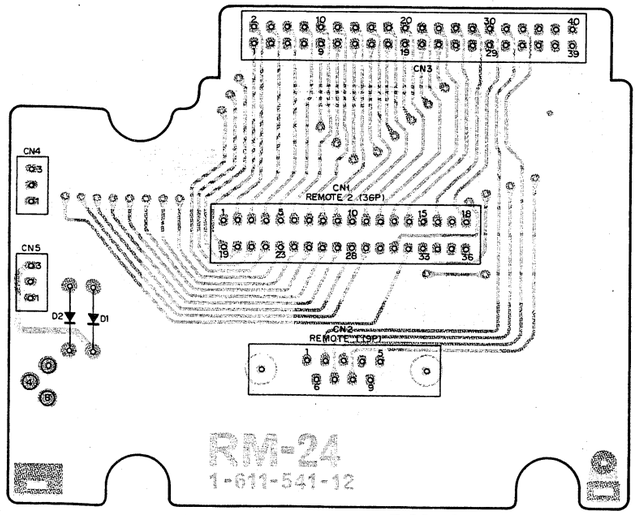
CP-74 –SOLDERING SIDE–

1-611-548-14
BVW-40S

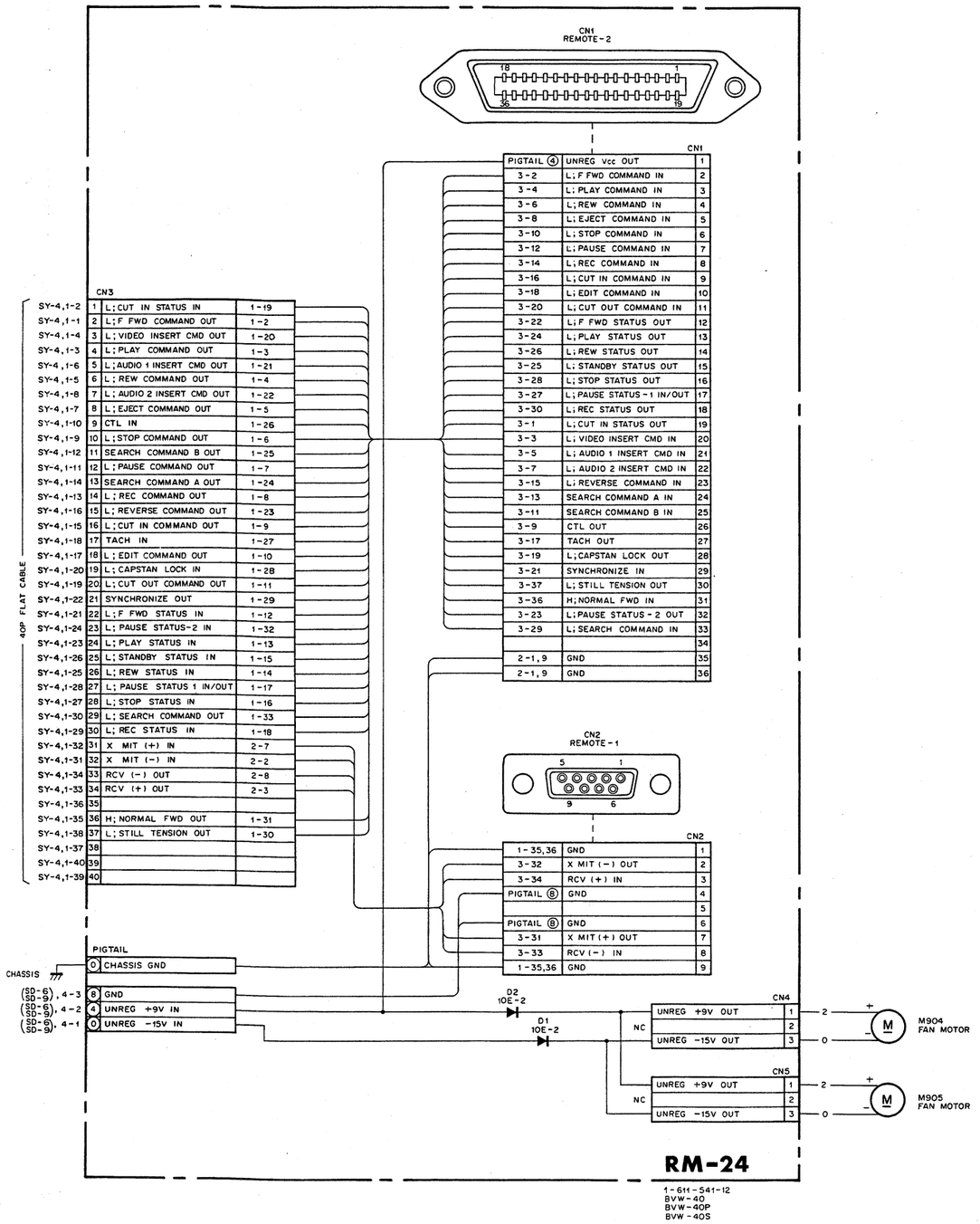
CP-74 (TBC CONTROL PANEL)



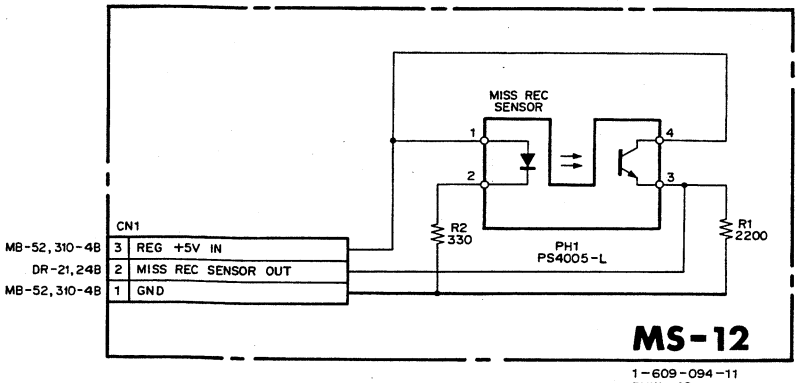
RM-24 (REMOTE CONNECTOR PANEL)



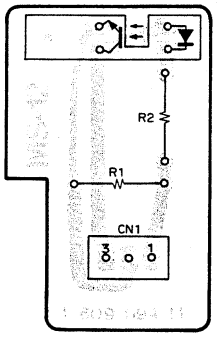
RM-24 -SOLDERING SIDE-
1-611-541-12
BVW-40
BVW-40P
BVW-40S



MS-12



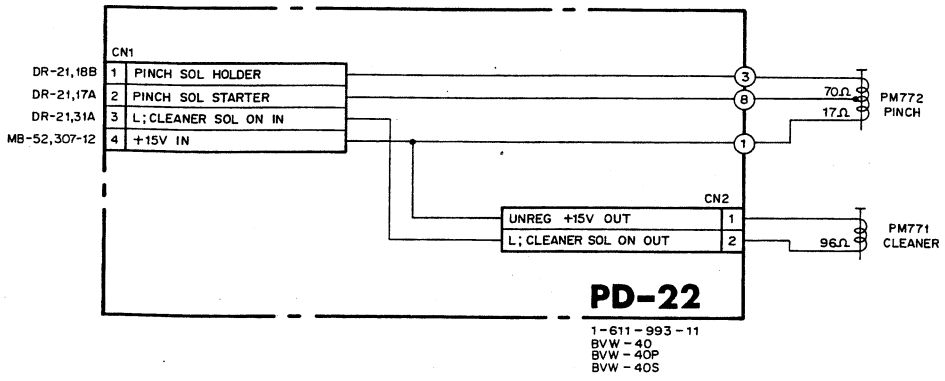
1-609-094-11
BVW-40
BVW-40P
BVW-40S

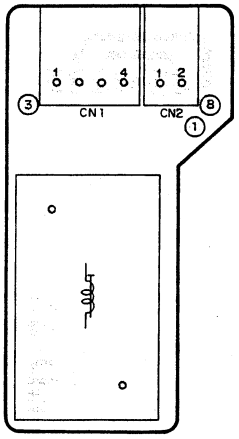


MS-12
-SOLDERING SIDE-

1-609-094-11
BVW-40
BVW-40P
BVW-40S

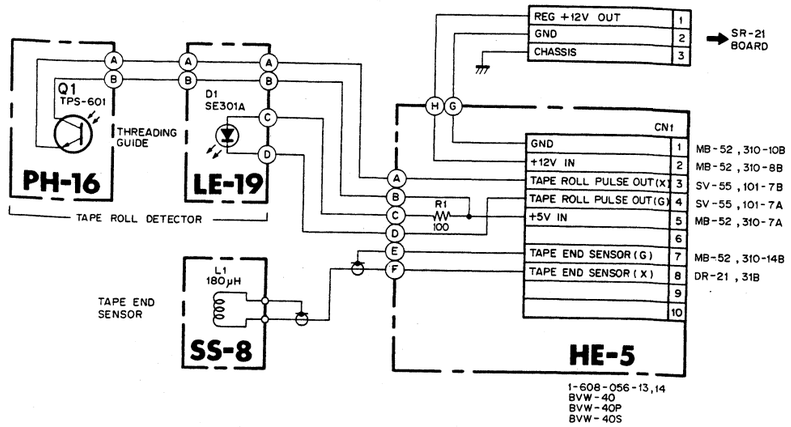
PD-22

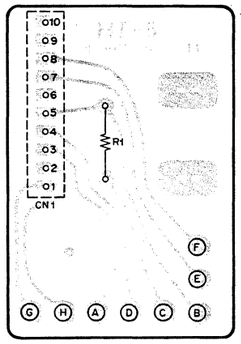

CN1
DR-21,18B
DR-21,17A
DR-21,31A
MB-52,307-12
1 PINCH SOL HOLDER
2 PINCH SOL STARTER
3 L;CLEANER SOL ON IN
4 +15V IN
3
8
1
70Ω
17Ω
PM772
PINCH
CN2
UNREG +15V OUT 1
L;CLEANER SOL ON OUT 2
96Ω
PM771
CLEANER
PD-22
1-611-993-11
BVW-40
BVW-40P
BVW-40S


1 4
1 2
3
8
1
CN1
CN2
PD-22
-SOLDERING SIDE-
1-611-993-11
BVW-40
BVW-40P
BVW-40S

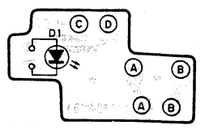
HE-5, LE-19, PH-16, SS-8

HE-5
LE-19
PH-16
SS-8

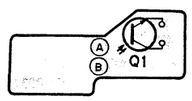




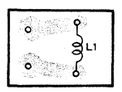
HE-5-SOLDERING SIDE-
1-608-056-14
BVW-40
BVW-40P
BVW-40S



LE-19-SOLDERING SIDE-
1-608-053-12
BVW-40
BVW-40P
BVW-40S

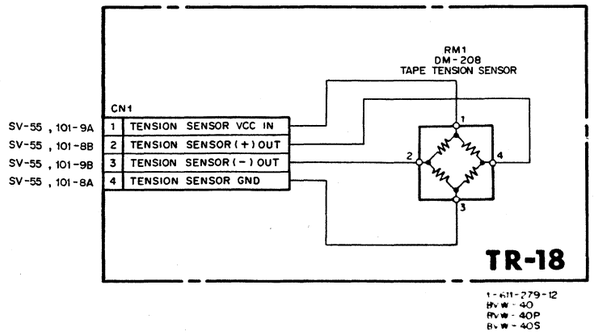


PH-16-SOLDERING SIDE-
1-608-054-13
BVW-40
BVW-40P
BVW-40S

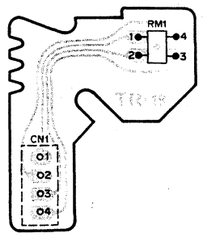


SS-8 -SOLDERING SIDE-
1-586-946-12
BVW-40
BVW-40P
BVW-40S

TR-18



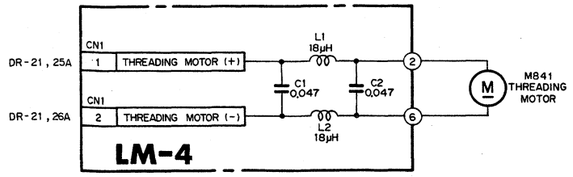
1-611-279-12
BVW-40
BVW-40P
BVW-40S



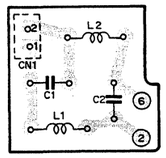
TR-18
-SOLDERING SIDE-

1-611-279-12
BVW-40
BVW-40P
BVW-40S

LM-4



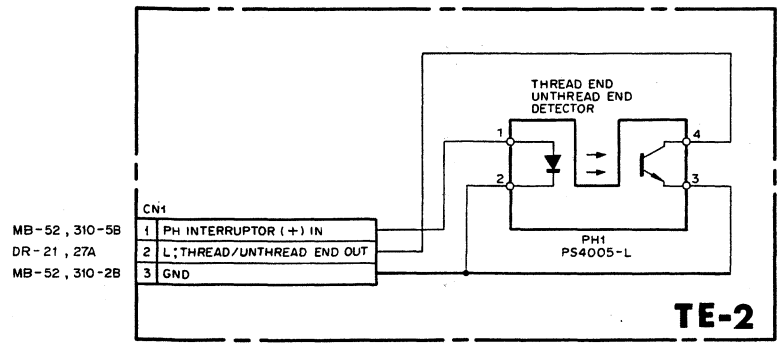
1-585-913-11
BVW-40
BVW-40P
BVW-40S



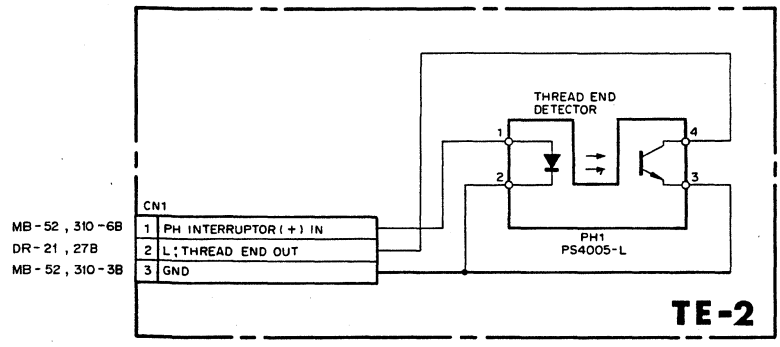
LM-4 -SOLDERING SIDE-

1-585-913-11
BVW-40
BVW-40P
BVW-40S

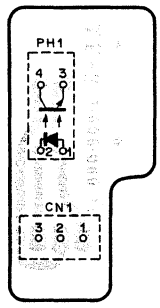
TE-2



1-608-060-11
BVW-40
BVW-40P
BVW-40S



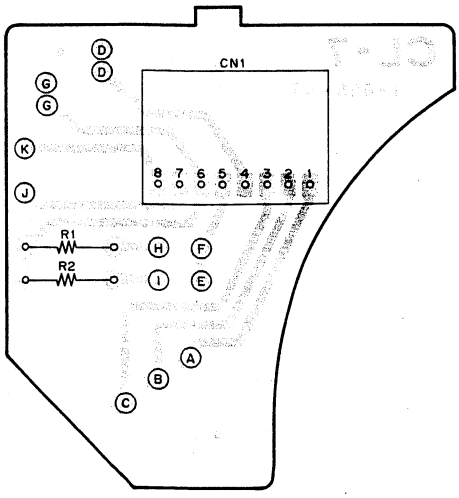
1-608-060-11
BVW-40
BVW-40P
BVW-40S



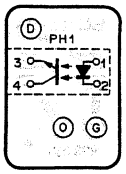
TE-2
-SOLDERING SIDE-

1-608-060-11
BVW-40
BVW-40P
BVW-40S

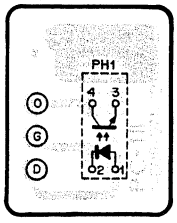
CL-7 (CASSETTE UP COMPARTMENT)
PC-17
PC-18



CL-7 -COMPONENT SIDE-
1-608-052-13
BVW-40
BVW-40P
BVW-40S

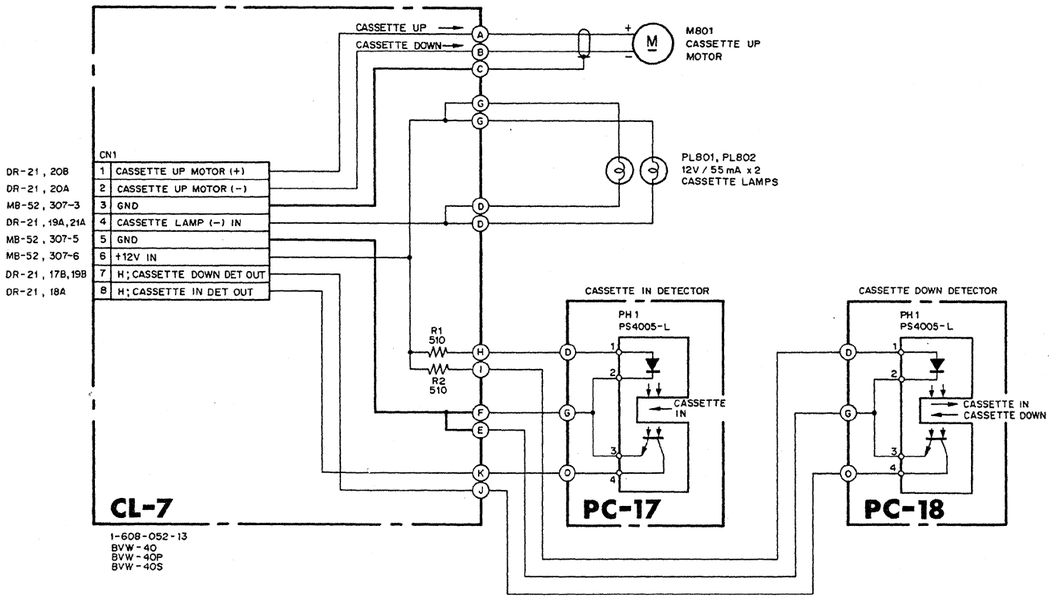


PC-17
-SOLDERING SIDE-
1-608-070-13
BVW-40
BVW-40P
BVW-40S

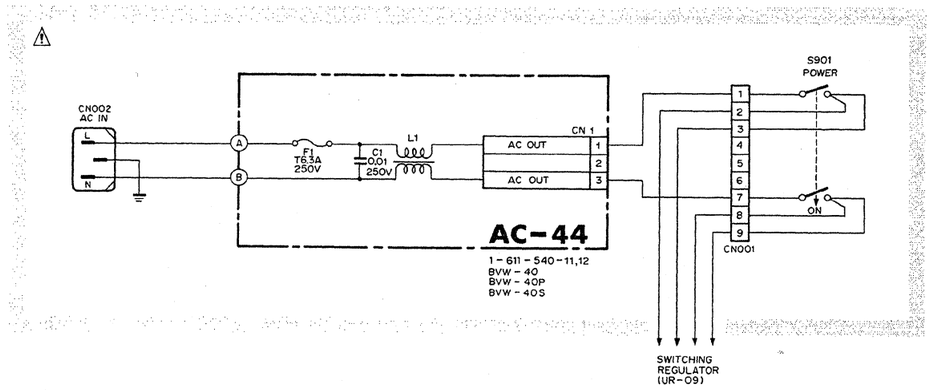


PC-18
- SOLDERING SIDE -
1-608-071-12
BVW-40
BVW-40P
BVW-40S

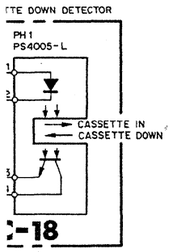
CL-7 (CASSETTE UP COMPARTMENT)
PC-17
PC-18

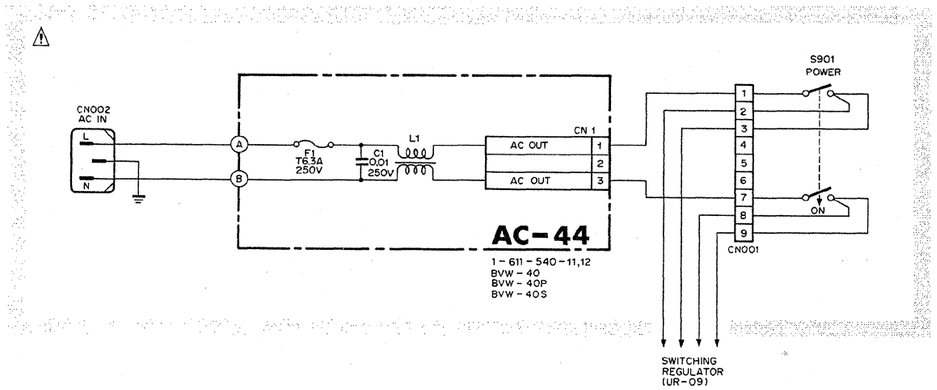


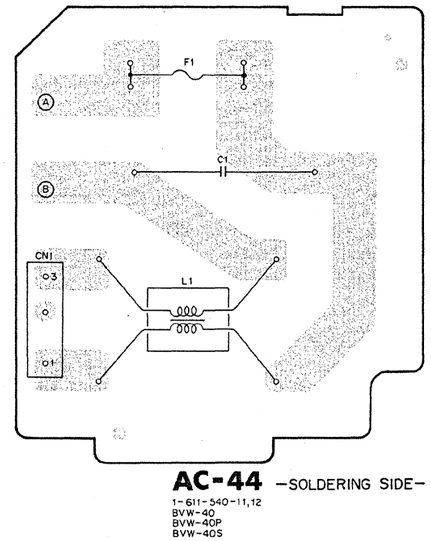
AC-44 (POWER)



AC-44 (POWER)







NOTE: **The shaded and ⚠-marked components are critical to safety.**
Replace only with same components as specified.

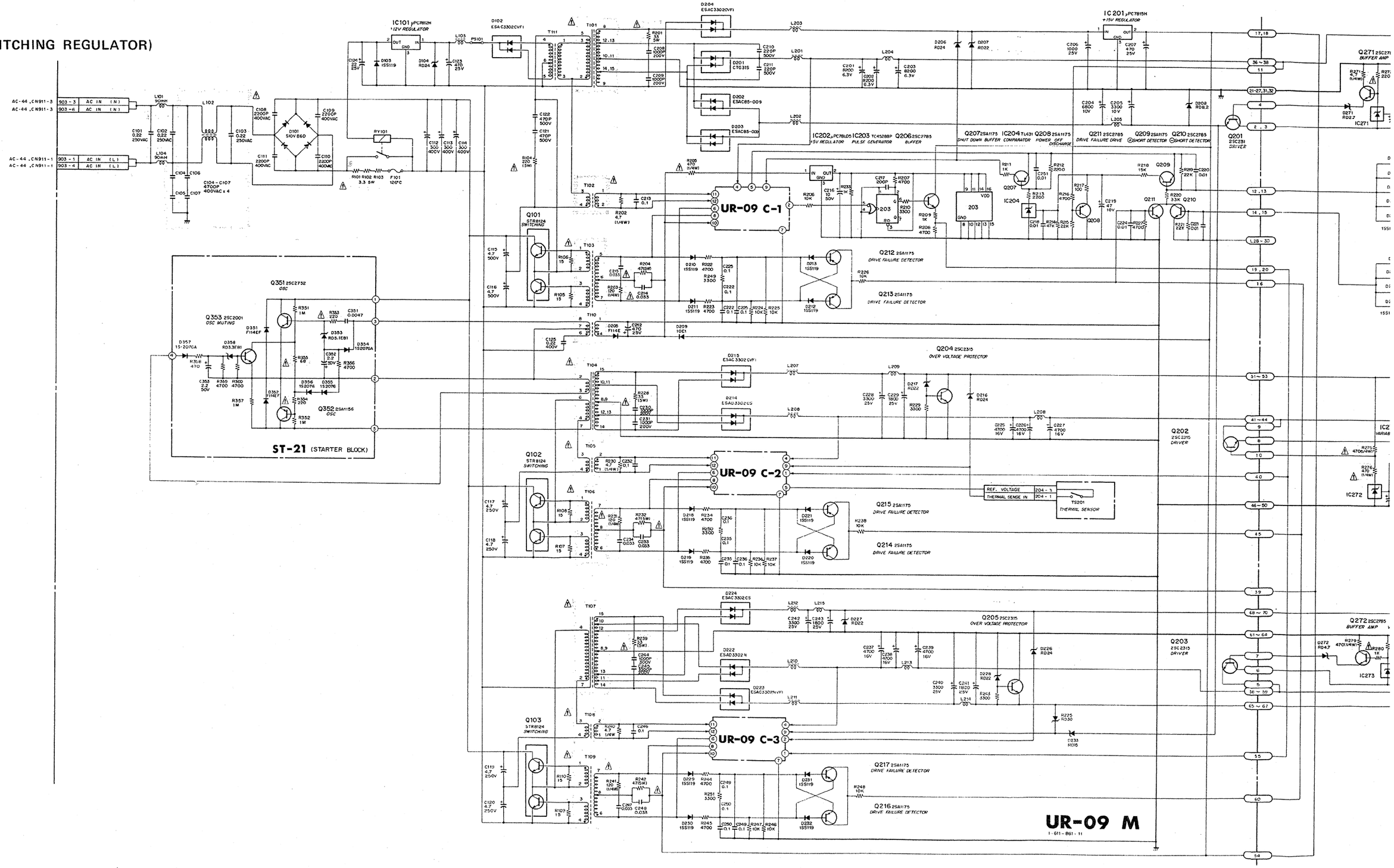
UR-09 (CN, M, ST-21)

UR-09 (SWITCHING REGULATOR)

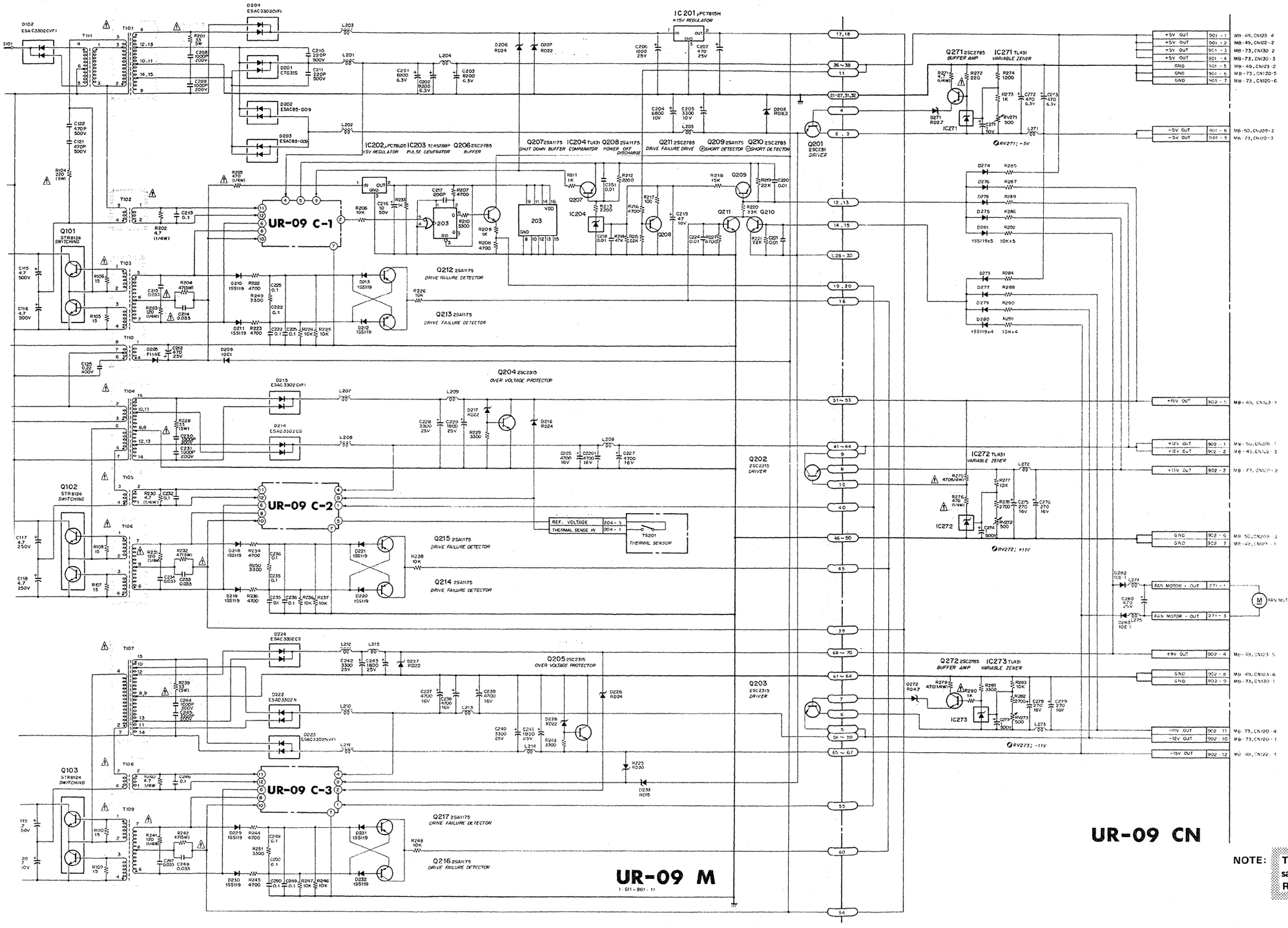
CN

M

ST-21



UR-09 (CN, M, ST-21)



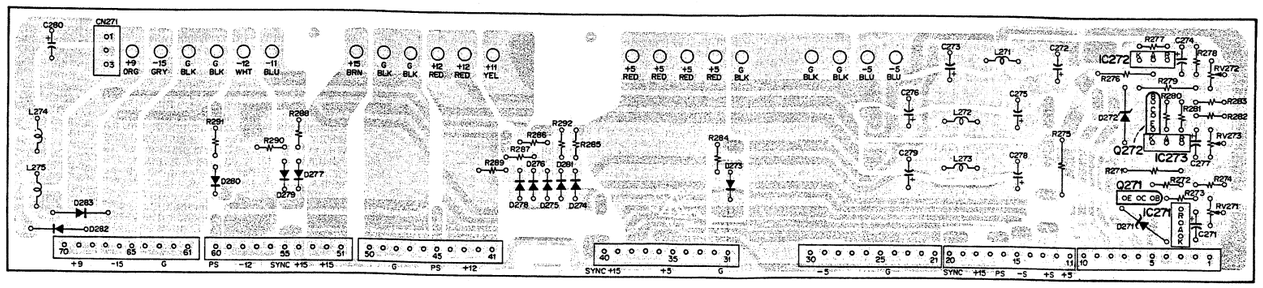
NOTE: The shaded and ⚠-marked components are critical to safety.
Replace only with same components as specified.

UR-09 (SWITCHING REGULATOR)

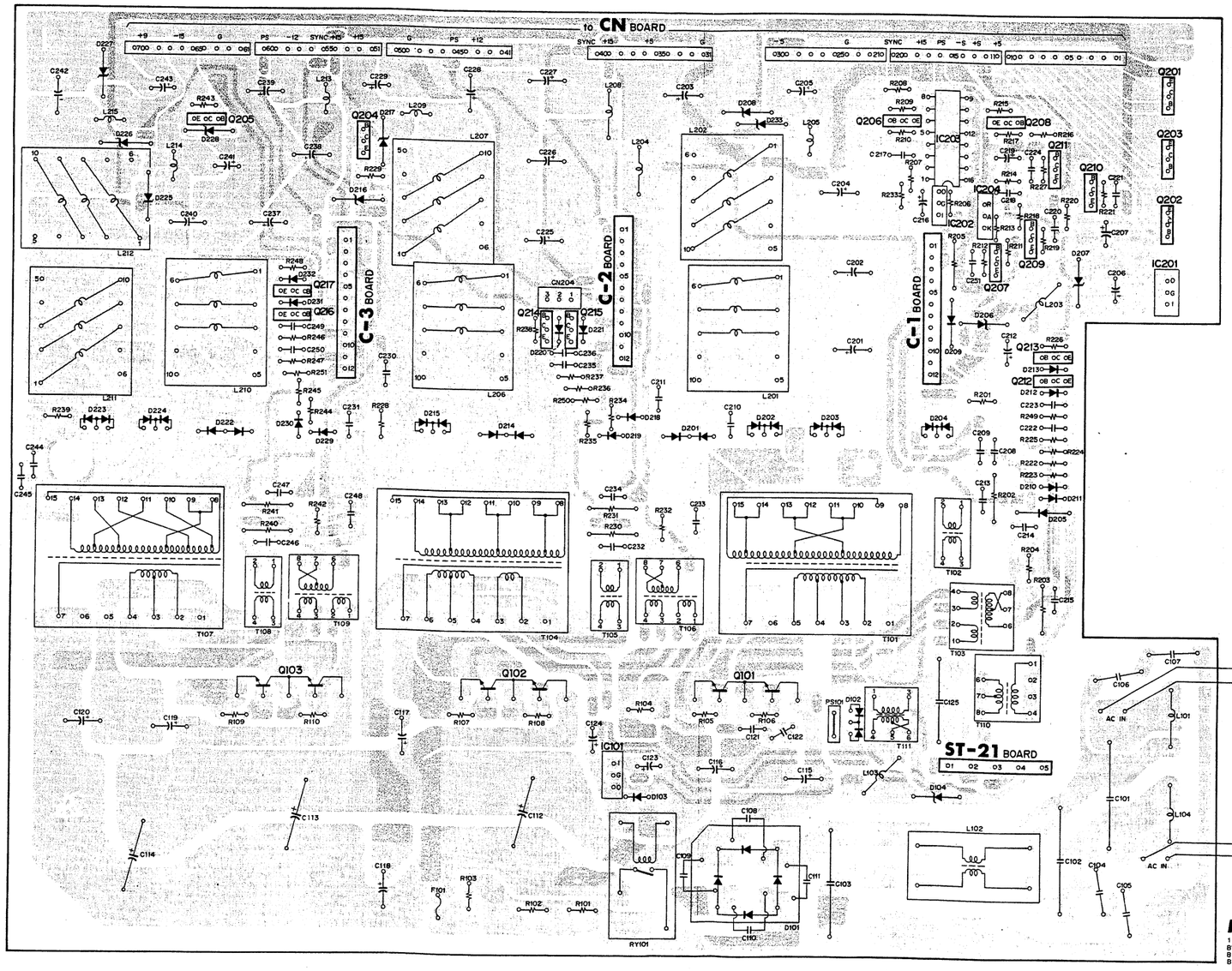
CN

M

ST-21



CN -SOLDERING SIDE-
1-611-862-11
BVW-40
BVW-40P
BVW-40S



M -SOLDERING SIDE-
1-611-861-11
BVW-40
BVW-40P
BVW-40S

ST-21-SOLDERING SIDE-
1-607-595-13
BVW-40
BVW-40P
BVW-40S

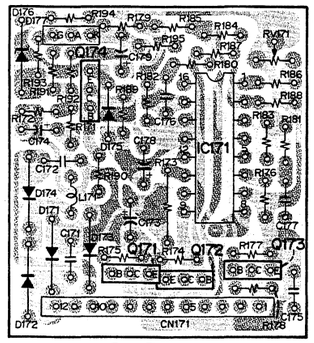
UR-09 (C1, C2, C3)

UR-09 (SWITCHING REGULATOR)

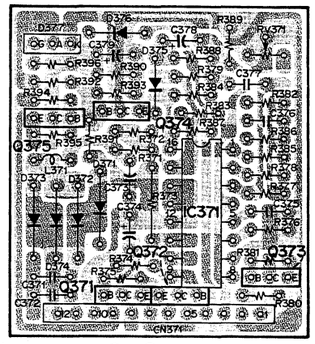
C1

C2

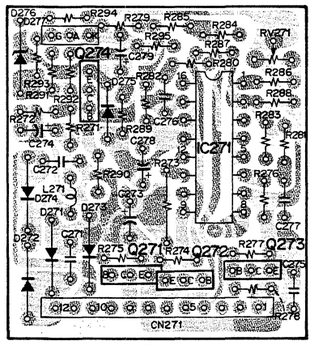
C3



C-1 –SOLDERING SIDE–
1-611-863-11
BVW-40
BVW-40P
BVW-40S



C-3 –SOLDERING SIDE–
1-611-865-11
BVW-40
BVW-40P
BVW-40S



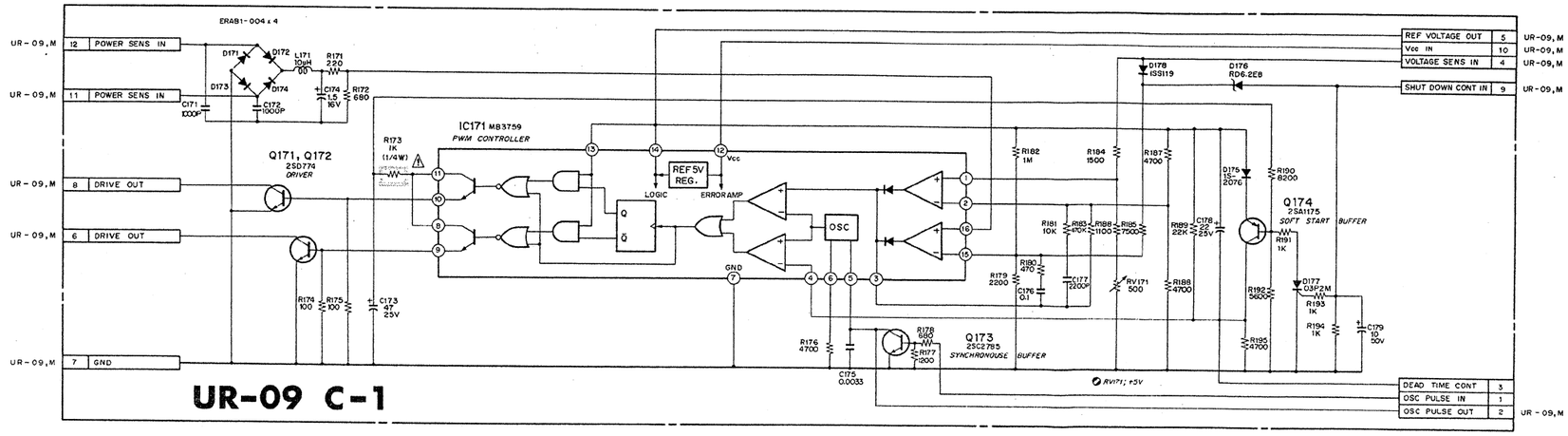
C-2 –SOLDERING SIDE–
1-611-864-11
BVW-40
BVW-40P
BVW-40S

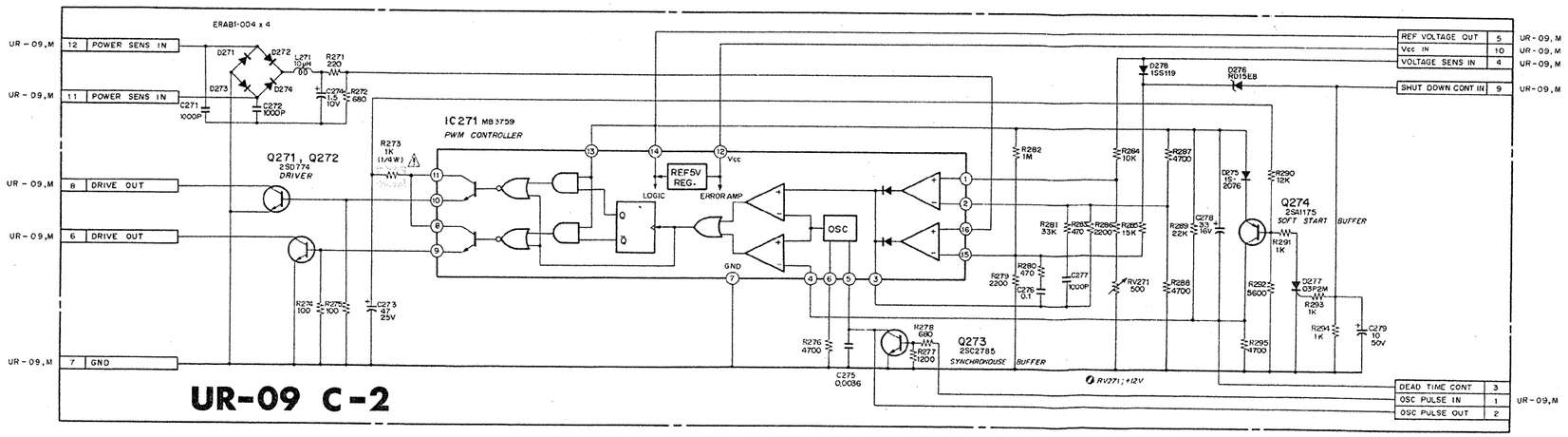
UR-09 (SWITCHING REGULATOR)

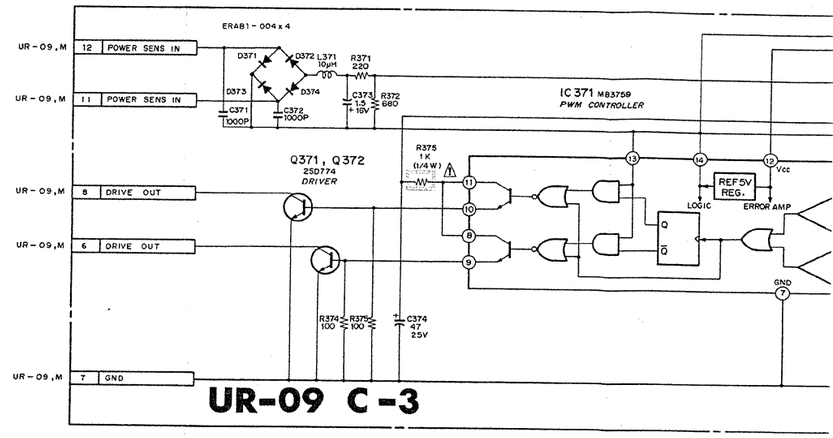
C1

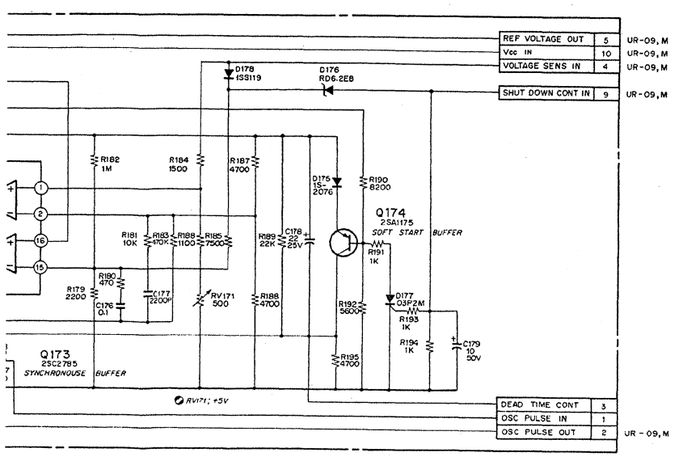
C2

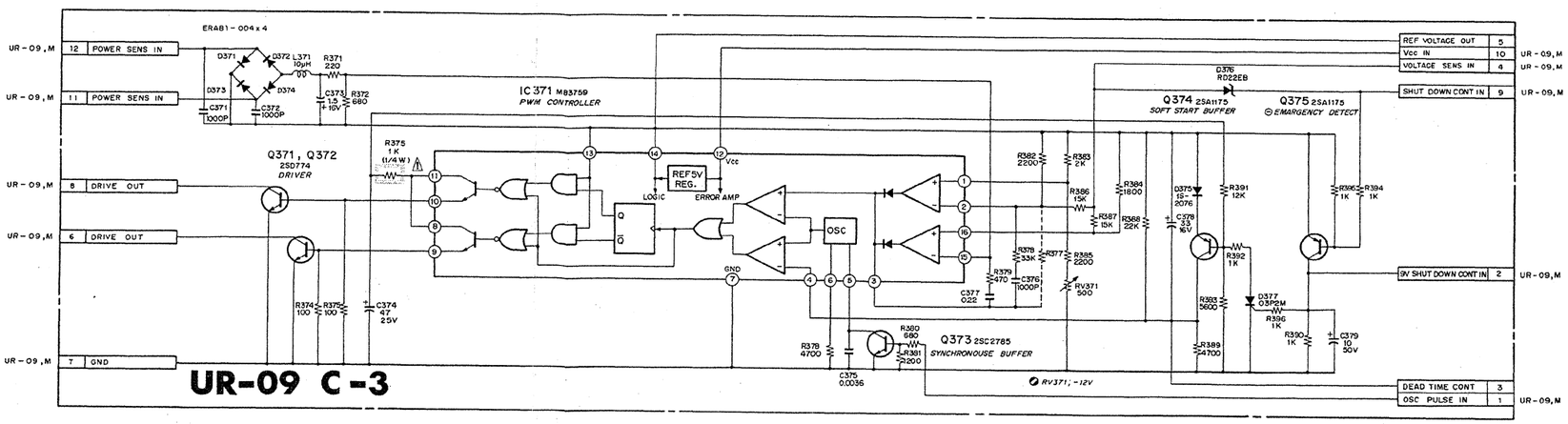
C3

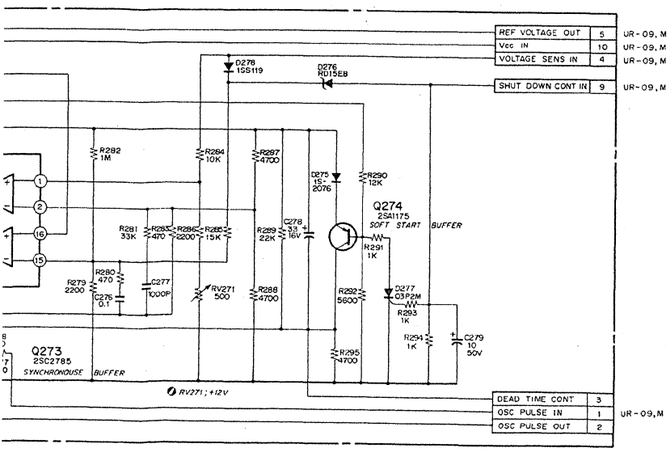












NOTE: The shaded and ⚠-marked components are critical to safety.
Replace only with same components as specified.

MB-50 (MOTHER BOARD)

CC-15

CN201

A			B		
	GND	1	GND		
		2			
+12V, +5V	REG +12V IN / REG +5V IN	3	REG +12V IN		+12V
		4	REG +5V IN		+5V
203-6A,202-6A		5			
203-7A,202-7A		6			203-6B,203-6B
		7			203-7B,203-7B
		8			
	GND	9	GND		
210-14B	DUB B-Y/C DO IN(G)	10	DUB R-Y/B-Y IN(X)		210-13A
210-14A	DUB B-Y/C DO IN(X)	11	DUB R-Y/B-Y IN(G)		210-13B
	GND	12			
210-15B	DUB R-Y/Y DO IN(G)	13	L:CTDM IN		206-5A,217-3
210-15A	DUB R-Y/Y DO IN(X)	14			
	GND	15			
		16			
		17	C-C SYNC OUT(G)		217-2
		18	C-C SYNC OUT(X)		217-1
		19			
		20			
		21			
203-22A,202-22A		22			202-22B,203-22B
	GND	23	L:Y-R,B IN		210-10B,206-6A, 219-3
216-10	R-Y/B-Y OUT(G)	24			
216-9	R-Y/B-Y OUT(X)	25	GND		
	GND	26	DUB Y IN(X)		210-12A
216-8	Y OUT(G)	27	DUB Y IN(G)		210-12B
216-7	Y OUT(X)	28	GND		
	GND	29	DECODE Y IN(X)		202-29A
	GND	30	DECODE Y IN(G)		202-30A
216-4	Y DO OUT(G)	31	GND		
216-3	Y DO OUT(X)	32	GND		
	GND	33	DECODE B-Y IN(X)		202-33A
216-2	C DO OUT(G)	34	DECODE B-Y IN(G)		202-34A
216-1	C DO OUT(X)	35	GND		
	GND	36	DECODE R-Y IN(X)		202-36A
		37	DECODE R-Y IN(G)		202-37A
		38			
		39			
-5V, -12V	REG -5V IN / REG -12V IN	40	REG -5V IN		-5V
		41	REG -12V IN		-12V
		42			
	GND	43	GND		

DEC-14

CN202

A			B		
	GND	1	GND		
		2			
+12V, +5V	REG +12V IN / REG +5V IN	3	REG +12V IN		+12V
		4	REG +5V IN		+5V
203-6A,201-6A		5			
203-7A,201-7A		6			201-6B,203-6B
		7			201-7B,203-7B
		8			
		9			
		10			
		11			
		12	Y IN (X)		203-12A
		13	Y IN (G)		203-13A
		14			
		15			
		16	CHROMA IN (X)		203-16A
		17	CHROMA IN (G)		203-17A
		18			
		19			
		20	SEPARATED SYNC IN(X)		203-20A
		21	SEPARATED SYNC IN(G)		203-21A
203-22A,201-22A		22			201-22B,203-22B
		23			
		24	L:B&W MODE IN		203-24A
		25			
		26	H:STD/L:NON STD IN		206-6B,210-10A,11A
		27			
		28			
201-29B	DECODE Y OUT(X)	29			
201-30B	DECODE Y OUT(G)	30			
		31			
		32	1st FIELD PULSE OUT		206-4B
201-33B	DECODE B-Y OUT(X)	33			
201-34B	DECODE B-Y OUT(G)	34			
		35			
201-36B	DECODE R-Y OUT(X)	36			
201-37B	DECODE R-Y OUT(G)	37			
		38			
		39			
-5V, -12V	REG -5V IN / REG -12V IN	40	REG -5V IN		-5V
		41	REG -12V IN		-12V
		42			
	GND	43	GND		

DEC-13

CN203

A			B		
	GND	1	GND		
		2			
+12V, +5V	REG +12V IN / REG +5V IN	3	REG +12V IN		+12V
		4	REG +5V IN		+5V
202-6A,201-6A		5			
202-7A,201-7A		6			201-6B,202-6B
219-1,210-9B	VIDEO IN (LINE)(X)	7			201-7B,202-7B
219-2,210-9A	VIDEO IN (LINE)(G)	8			
		9			
		10			
		11			
202-12B	Y OUT (X)	12			
202-13B	Y OUT (G)	13			
		14			
		15			
202-16B	CHROMA OUT (X)	16			
202-17B	CHROMA OUT (G)	17			
		18			
		19			
202-20B	SEPARATED SYNC OUT(X)	20			
202-21B	SEPARATED SYNC OUT(G)	21			
202-22A,201-22A		22			201-22B,202-22B
		23			
202-24B	L:B&W MODE OUT	24			
		25			
		26			
		27			
		28			
		29			
		30			
		31			
		32			
		33	L:VIDEO EE IN		213-7,206-24B
		34	RF METER IN		206-7A
		35	L:AGC/H:MANUAL IN		206-7B
		36	VIDEO LEVEL CONT IN		206-8A
		37	VIDEO/RF METER OUT		206-8B
		38			
		39			
-5V, -12V	REG -5V IN / REG -12V IN	40	REG -5V IN		-5V
		41	REG -12V IN		-12V
		42			
	GND	43	GND		

AU-45

CN204

A			B		
	GND	1	GND		
		2			
+12V	REG +12V IN	3	REG +12V IN		
+5V	(REG +5V IN)	4	(REG +5V IN)		
205-5A	FILTERED +12V OUT	5	FILTERED +12V		
	GND	6	GND		
210-2B,206-14B	CH-2 LINE OUT(X)	7	GND		
210-2A,206-14A	CH-2 LINE OUT(G)	8	GND		
	GND	9	L:CH-2 LIMITER		
206-15B	CH-2 PB VR IN/OUT(X)	10	GND		
206-15A	CH-2 PB VR IN/OUT(Y)	11	GND		
206-16B	CH-2 PB VR IN/OUT(G)	12	GND		
	GND	13	L:MIX TO CH-2		
206-16A	CH-2 REC/EE VR IN(X)	14	GND		
206-17B	CH-2 REC/EE VR IN(G)	15	GND		
206-21B	L:AUDIO NR ON IN	16	L:TC REC IN		
211-8	L:CH-2 REC/EE IN	17	CH-2 PB IN(G)		
	GND	18	CH-2 PB IN(X)		
	GND	19			
205-7B,212-3	L:CH-2 BIAS ON IN	20	GND		
	GND	21	CH-2 REC OUT(X)		
	GND	22	CH-2 REC OUT(G)		
205-25B,213-3	L:CH-2 PB CONTROL IN	23	GND		
	GND	24	CH-1 REC OUT(X)		
	GND	25	CH-1 REC OUT(G)		
205-8B,212-4	L:CH-1 BIAS ON IN	26	GND		
	GND	27	CH-1 PB IN(X)		
	GND	28	CH-1 PB IN(G)		
	GND	29	L:CH-1 PB CONTR		
206-17A	CH-1 REC/EE VR IN(X)	30	GND		
206-18B	CH-1 REC/EE VR IN(G)	31	GND		
	GND	32	L:CH-1 REC/EE		
206-18A	CH-1 PB VR IN/OUT(X)	33	GND		
206-19B	CH-1 PB VR IN/OUT(Y)	34	GND		
206-19A	CH-1 PB VR IN/OUT(G)	35	L:CH-1 LIMITER		
	GND	36	L:MIX TO CH-1		
210-3B,206-20A	CH-1 LINE OUT(X)	37	GND		
210-3A,206-20B	CH-1 LINE OUT(G)	38	GND		
205-39A	FILTERED -12V OUT	39	L:AUDIO MUTE IN		
		40			
-12V	REG -12V IN	41	REG -12V IN		
		42			
	GND	43	GND		

CN206

MB-52,310-11A	1A	EXT TC IN(X)			208-2
MB-52,310-13A	2A	EXT TC IN(G)			208-1
NB-52,310-8A	3A	TC OUT to EXT(X)			208-5
BF-7,608-4	4A	REG -12V OUT		+12V	
SW-7,623-2	5A	L:CTDM IN			201-13B,206-5B,217-3
SW-7,623-3	6A	L:Y-R,B IN			201-23B,210-10B,219-3
MB-49,116-13B	7A	RF METER IN			203-34B
BF-7,610-5	8A	VIDEO LEVEL CONT IN			203-36B
BF-7,608-5	10A	REG +12V OUT		+12V	
BF-7,608-1	11A	AUDIO MONITOR IN(G)			210-6B
BF-7,607-8	12A	AUDIO CH-2 OUT(G)			210-5B
BF-7,609-1	13A	AUDIO CH-1 OUT(G)			210-4B
BF-7,608-8	14A	CH-2 LINE OUT(G)			204-8A,210-2A
BF-7,608-12	15A	CH-2 PB VR IN/OUT(Y)			204-11A
BF-7,609-4	16A	CH-2 REC/EE VR IN(X)			204-10A
BF-7,609-11	17A	CH-1 PB VR IN/OUT(X)			204-33A
BF-7,609-5	19A	CH-1 PB VR IN/OUT(G)			204-35A
BF-7,608-7	20A	CH-1 LINE OUT(X)			204-37A,210-3B
BF-7,609-12	21A	L:AUDIO MUTE OUT			204-39B,205-39B,213-6, 206-23B
BF-7,608-3	22A	GND			205-6B
MB-49,117-14A	23A	L:BIAS OSC ON IN			213-8
SW-6,631-3	24A	L:LIMITER ON IN			213-9
MB-52,310-12A	1B	EXT TC OUT(X)			208-4
MB-52,310-10A	2B	TC OUT to EXT(G)			208-6
MB-52,310-9A	3B	TC OUT to EXT(X)			208-4
MB-52,310-22B	4B	1st FIELD PULSE OUT			202-32B
MB-49,117-12A	5B	L:CTDM OUT			201-13B,206-5A,217-3
SW-7,623-1	6B	H:STD/L:NON STD IN			202-26B,210-10A,11A
BF-7,610-2	8B	L:DSC/H:HANDLER OUT			203-35B
MB-52,310-23B	9B	TC REC SIGNAL(X)			205-15B
MB-52,310-23A	10B	TC REC SIGNAL(G)			205-15B
BF-7,608-2	11B	AUDIO MONITOR IN(X)			210-7B
BF-7,609-9	12B	AUDIO CH-2 OUT(X)			210-5A
BF-7,609-2	13B	AUDIO CH-1 OUT(X)			210-4A
BF-7,607-9	15B	CH-2 LINE OUT(X)			204-7A,210-2B
BF-7,608-11	16B	CH-2 PB VR IN/OUT(X)			204-12A
BF-7,609-10	17B	CH-2 REC/EE VR IN(G)			204-15A
BF-7,609-3	18B	CH-1 REC/EE VR IN(G)			204-31A
BF-7,609-6	19B	CH-1 PB VR IN/OUT(Y)			204-34A
BF-7,608-6	20B	CH-1 LINE OUT(G)			204-36B,210-3A
MB-49,116-19A	22B	L:AUDIO NR ON IN			204-16A
	23B	GND			205-5B
MB-49,117-15B	23B	L:AUDIO MUTE IN			206-21A,204-39B,205-39B,
MB-49,116-12A	24B	L:VIDEO EE OUT			213-7,203-33B 213-6
SW-6,631-1	25B	L:MIXING TO CH-2 IN			213-9

CN207

MB-49,124-3	1	REG -12V IN		+12V
MB-49,124-2	2	REG +5V IN		+5V
MB-49,124-1	3	REG -5V OUT		-5V

CN208

CN PANEL,566-2	1	EXT TC IN (X)		206-1B
CN PANEL,566-1	2	EXT TC IN (Y)		206-2B
CN PANEL,566-3	3	EXT TC IN (G)		206-2A
CN PANEL,567-2	4	TC OUT to EXT(X)		206-3B
CN PANEL,567-3	5	TC OUT to EXT(Y)		206-3A
CN PANEL,567-1	6	TC OUT to EXT(G)		206-2B

CN209

UR-09,902-1	1	REG +12V IN		+12V
UR-09,902-6	2	GND		-5V
UR-09,901-8	3	REG -5V IN		C202 47V 16V, C203 47V 16V

CN210

CP-61,522-7	1A	GND		
CP-61,526-1	2A	CH-2 LINE OUT(G)		204-8A,206-14A
CP-61,527-1	3A	CH-1 LINE OUT(G)		204-38A,206-20B
CP-61,522-4	4A	AUDIO CH-1 OUT(X)		206-13B
CP-61,522-5	5A	AUDIO CH-2 OUT(X)		206-12B
CP-61,522-6	6A	REG -12V OUT		-12V
	8A	GND		
	9A	REG +12V		+12V
CP-62,541-5	9A	VIDEO IN (LINE)(G)		203-9A,219-1
	10A	H:STD/L:NON STD OUT		206-6B,202-26B
	11A	H:STD/L:NON STD OUT		206-6B,202-26B
CN PANEL,557-1	12A	DUB Y IN(X)		201-26B
CN PANEL,557-2	13A	DUB R-Y/B-Y IN(X)		201-10B
CN PANEL,557-3	14A	DUB R-Y/C DO IN(X)		201-14A
CN PANEL,557-5	15A	DUB Y IN(G)		203-14A
CP-61,528-4	1B	GND		204-7A,206-14B
CP-61,526-3	2B	CH-2 LINE OUT(X)		204-37B,206-20A
CP-61,527-3	3B	CH-1 LINE OUT(X)		206-13A
CP-61,522-2	4B	AUDIO CH-1 OUT(G)		206-12A
CP-61,522-3	5B	AUDIO CH-2 OUT(G)		206-11A
CP-61,522-1	6B	AUDIO MONITOR OUT(G)		206-11B
CP-61,522-2	7B	AUDIO MONITOR OUT(X)		206-11A
CP-61,522-1	8B	REG +12V OUT		+12V
CP-62,541-4	9B	VIDEO IN (LINE)(X)		203-8A,219-2
	10B	L:Y-R,B		201-23B,206-6A
	11B			
CN PANEL,557-2	12B	DUB Y IN(G)		201-27B
CN PANEL,557-4	13B	DUB R-Y/B-Y IN(G)		201-11B
CN PANEL,557-6	14B	DUB B-Y/C DO IN(G)		201-10A
CN PANEL,557-4	15B	DUB R-Y/Y DO IN(G)		201-13A

CN211

BC-6,454-1	1	GND		
BC-6,454-2	2	REG +5V OUT		+5V
BC-6,454-3	3	GND		
BC-6,454-4	4	REG +5V OUT		
BC-6,454-5	5			
BC-6,454-6	6	L:CH-2 LIMITER ON IN		204-9B
BC-6,454-7	7	L:MIX TO CH-2 REC/EE		203-13B
BC-6,454-8	8	L:CH-2 REC/EE IN		204-17A
BC-6,454-9	9	L:CH-1 REC/EE IN		204-32B
BC-6,454-10	10	L:CH-1 LIMITER ON IN		204-35B

CN212

BC-6,453-1	1	L:MIX TO CH-1 REC/EE		204-36B
BC-6,452-2	2	FAST IN		205-5B
BC-6,453-3	3	L:CH-2 BIAS ON IN		204-20A,205-7B
BC-6,453-4	4	L:CH-1 BIAS ON IN		204-6A,205-8B
BC-6,451-5	5	L:CH-2 ERASE ON IN		205-9B
BC-6,451-6	6	L:CH-1 ERASE ON IN		205-10B
BC-6,453-7	7	CH-2 RELAY ON		205-13B
BC-6,453-8	8	CH-1 RELAY ON		205-14B
BC-6,453-9	9	L:TC ERASE ON IN		205-17B
BC-6,453-10	10	TC RELAY ON		205-18B

CN213

BC-6,452-1	1	L:TC REC IN		204-16B,205-18A
BC-6,452-2	2	L:AUDIO CH-2 REC IN		205-22B
BC-6,452-3	3	L:CH-2 PB CONTROL IN		204-23A,205-25B
BC-6,452-4	4	L:AUDIO CH-1 REC IN		205-28B
BC-6,452-5	5	L:AUDIO MUTE CONT IN		204-39A,205-27B
BC-6,452-6	6	L:AUDIO MUTE OUT		205-21B,23B,204-39B,205-39B
BC-6,452-7	7	L:VIDEO EE IN		203-33B,206-24B
BC-6,452-8	8	L:LIMITER ON OUT		206-24A
BC-6,452-9	9	L:MIXING TO CH-2 OUT		206-25B
BC-6,452-10	10	L:MIXING TO CH-1 OUT		206-25A

CN214

H903	1	AUDIO CH-1 HEAD(X)		205-37A
H903	2	AUDIO CH-1 HEAD(Y)		205-36A
H903	3	AUDIO CH-1 HEAD(G)		205-35A
H903	4	AUDIO CH-2 HEAD(X)		205-33A
H903	5	AUDIO CH-2 HEAD(Y)		205-33A
H903	6	AUDIO CH-2 HEAD(G)		205-32A

CN215

H903	1	CH-1 ERASE HEAD(G)		205-17A
H903	2	CH-1 ERASE HEAD(Y)		205-15A
H903	3	CH-1 ERASE HEAD(X)		205-13A
H903	4	CH-2 ERASE HEAD(G)		205-12A
H903	5	CH-2 ERASE HEAD(Y)		205-12A
H903	6	CH-2 ERASE HEAD(X)		205-11A
H903	7	TC ERASE HEAD(G)		205-9A
H903	8	TC ERASE HEAD(Y)		205-8A
H903	9	TC ERASE HEAD(X)		205-7A
	10			

CN216

MB-49,127-8	1	C DO OUT(X)		201-35A
MB-49,127-7	2	C DO OUT(G)		201-34A
MB-49,127-6	3	Y DO OUT(X)		201-32A
MB-49,127-5	4	Y DO OUT(G)		201-31A
	5			
	6			
MB-49,127-2	7	Y OUT(X)		201-28A
MB-49,127-1	8	Y OUT(G)		201-27A
MB-49,127-3	9	R-Y/B-Y OUT(X)		201-25A
MB-49,127-4	10	R-Y/B-Y OUT(G)		201-24A

CN217

SD-9,922-5	1	C-C SYNC OUT(X)		201-18B
SD-9,922-6	2	C-C SYNC OUT(G)		201-17B
SD-9,922-3	3	L:CTDM OUT		206-5A,B,201-13B

CN218

	1	REG +12V OUT		+12V
	2	GND		

DEC-14

CN202

	1	GND	
	2		
	3	REG +12V IN	+12V
	4	REG +5V IN	+5V
	5		
	6		201-6B,203-6B
	7		201-7B,203-7B
	8		
	9		
	10		
	11		
	12	Y IN (X)	203-12A
	13	Y IN (G)	203-13A
	14		
	15		
	16	CHROMA IN (X)	203-16A
	17	CHROMA IN (G)	203-17A
	18		
	19		
	20	SEPARATED SYNC IN(X)	203-20A
	21	SEPARATED SYNC IN(G)	203-21A
	22		201-22B,203-22B
	23		
	24	L:B&W MODE IN	203-24A
	25		
	26	H:STD/L:NON STD IN	206-6B,210-10A,11A
	27		
	28		
	29		
	30		
	31		
	32	1st FIELD PULSE OUT	206-4B
X)	33		
G)	34		
	35		
X)	36		
G)	37		
	38		
	39		
	40	REG -5V IN	-5V
	41	REG -12V IN	-12V
	42		
	43	GND	

DEC-13

CN203

A		B		
GND	1	GND		
	2			
REG +12V IN	3	REG +12V IN		+12V
REG +5V IN	4	REG +5V IN		+5V
	5			
202-6A,201-6A	6			201-6B,202-6B
202-7A,201-7A	7			201-7B,202-7B
219-1,210-9B VIDEO IN (LINE)(X)	8			
219-2,210-9A VIDEO IN (LINE)(G)	9			
	10			
	11			
202-12B Y OUT (X)	12			
202-13B Y OUT (G)	13			
	14			
	15			
202-16B CHROMA OUT (X)	16			
202-17B CHROMA OUT (G)	17			
	18			
	19			
202-20B SEPARATED SYNC OUT(X)	20			
202-21B SEPARATED SYNC OUT(G)	21			
202-22A,201-22A	22			201-22B,202-22B
	23			
202-24B L:B&W MODE OUT	24			
	25			
	26			
	27			
	28			
	29			
	30			
	31			
	32			
	33	L:VIDEO EE IN		213-7,206-24B
	34	RF METER IN		206-7A
	35	L:AGC/H:MANUAL IN		206-7B
	36	VIDEO LEVEL CONT IN		206-8A
	37	VIDEO/RF METER OUT		206-8B
	38			
	39			
-5V REG -5V IN	40	REG -5V IN		-5V
-12V REG -12V IN	41	REG -12V IN		-12V
	42			
GND	43	GND		

AU-45

CN204

A		B		
GND	1	GND		
	2			
+12V REG +12V IN	3	REG +12V IN		+12V
+5V (REG +5V IN)	4	(REG +5V IN)		+5V
205-5A FILTERED +12V OUT	5	FILTERED +12V OUT	205-5A	
GND	6	GND		
210-2B,206-14B CH-2 LINE OUT(X)	7	GND		
210-2A,206-14A CH-2 LINE OUT(G)	8	GND		
GND	9	L:CH-2 LIMITER ON IN	211-6	
206-15B CH-2 PB VR IN/OUT(X)	10	GND		
206-15A CH-2 PB VR IN/OUT(Y)	11	GND		
206-16B CH-2 PB VR IN/OUT(G)	12	GND		
GND	13	L:MIX TO CH-2 REC/EE	211-7	
206-16A CH-2 REC/EE VR IN(X)	14	GND		
206-17B CH-2 REC/EE VR IN(G)	15	GND		
206-21B L:AUDIO NR ON IN	16	L:TC REC IN		213-1,205-18A
211-8 L:CH-2 REC/EE IN	17	CH-2 PB IN(G)	205-20A	
GND	18	CH-2 PB IN(X)	205-21A	
GND	19			
205-7B,212-3 L:CH-2 BIAS ON IN	20	GND		
GND	21	CH-2 REC OUT(X)	205-23A	
GND	22	CH-2 REC OUT(G)	205-24A	
205-25B,213-3 L:CH-2 PB CONTROL IN	23	GND		
GND	24	CH-1 REC OUT(X)	205-26A	
GND	25	CH-1 REC OUT(G)	205-27A	
205-8B,212-4 L:CH-1 BIAS ON IN	26	GND		
GND	27	CH-1 PB IN(X)	205-29A	
GND	28	CH-1 PB IN(G)	205-30A	
GND	29	L:CH-1 PB CONTROL IN	213-5,205-27B	
206-17A CH-1 REC/EE VR IN(X)	30	GND		
206-18B CH-1 REC/EE VR IN(G)	31	GND		
GND	32	L:CH-1 REC/EE IN	211-9	
206-18A CH-1 PB VR IN/OUT(X)	33	GND		
206-19B CH-1 PB VR IN/OUT(Y)	34	GND		
206-19A CH-1 PB VR IN/OUT(G)	35	L:CH-1 LIMITER ON	211-10	
GND	36	L:MIX TO CH-1 REC/EE	212-1	
210-3B,206-20A CH-1 LINE OUT(X)	37	GND		
210-3A,206-20B CH-1 LINE OUT(G)	38	GND		
205-39A FILTERED -12V OUT	39	L:AUDIO MUTE IN		206-21A,23B, 205-39B,213-6
-12V REG -12V IN	40			-12V
	41	REG -12V IN		
	42			
GND	43	GND		

AU-46

CN205

A		B		
GND	1	GND		
	2			
+12V REG +12V IN	3	REG +12V IN		+12V
+5V (REG +5V IN)	4	(REG +5V IN)		+5V
204-5A,B FILTERED +12V IN	5	L:FAST IN		212-2
GND	6	L:BIAS OSC ON IN		206-23A
215-9 TC ERASE HEAD (X)	7	L:CH-2 BIAS ON		212-3,204-20A
215-8 TC ERASE HEAD (Y)	8	L:CH-1 BIAS ON		212-4,204-26A
215-7 TC ERASE HEAD (G)	9	L:CH-2 ERASE ON		212-5
GND	10	L:CH-1 ERASE ON		212-6
215-6 CH-2 ERASE HEAD(X)	11	GND		
215-5 CH-2 ERASE HEAD(Y)	12	GND		
215-4 CH-2 ERASE HEAD(G)	13	CH-2 RELAY ON		212-7
GND	14	CH-1 RELAY ON		212-8
215-3 CH-1 ERASE HEAD(X)	15	TC REC SIGNAL(G)		206-9B
215-2 CH-1 ERASE HEAD(Y)	16	TC REC SIGNAL(X)		206-10B
215-1 CH-1 ERASE HEAD(G)	17	L:TC ERASE ON		212-9
204-16B,213-1 L:TC REC IN	18	TC RELAY ON		212-10
GND	19			
204-17B CH-2 PB OUT(G)	20	GND		
204-18B CH-2 PB OUT(X)	21	GND		
GND	22	L:AUDIO CH-2 REC IN		213-2
204-21B CH-2 REC IN(X)	23	GND		
204-22B CH-2 REC IN(G)	24	GND		
GND	25	L:CH-2 PB CONTROL IN		213-3,204-23A
204-24B CH-1 REC IN(X)	26	GND		
204-25B CH-1 REC IN(G)	27	L:CH-1 PB CONTROL IN		213-5,204-29B
GND	28	L:AUDIO CH-1 REC IN		213-4
204-27B CH-1 PB OUT(X)	29			
204-28B CH-1 PB OUT(G)	30	GND		
GND	31	GND		
214-6 AUDIO CH-2 HEAD (G)	32	GND		
214-5 AUDIO CH-2 HEAD (Y)	33	GND		
214-4 AUDIO CH-2 HEAD (X)	34	GND		
214-3 AUDIO CH-1 HEAD (G)	35	GND		
214-2 AUDIO CH-1 HEAD (Y)	36	GND		
214-1 AUDIO CH-1 HEAD (X)	37	GND		
GND	38	GND		
204-39A FILTERED -12V IN	39	L:AUDIO MUTE IN		206-21A,23B, 204-39B,213-6
	40			
-12V REG -12V IN	41	REG -12V IN		-12V
	42			
GND	43	GND		

UR-09,902-6 2 GND
UR-09,901-8 3 REG -5V IN

CN210

CP-61,522-7	1A	GND	
CP-61,526-1	2A	CH-2 LINE OUT(G)	204-8A,206-14A
CP-61,522-4	3A	CH-2 LINE OUT(X)	204-13A,206-20B
CP-61,526-2	4A	AUDIO CH-1 OUT	206-13B
CP-61,522-3	5A	AUDIO CH-2 OUT(X)	206-12B
CP-61,522-6	6A	REG -12V OUT	-12V
	7A	GND	
	8A	REG +12V	+12V
CP-62,541-5	9A	VIDEO IN (LINE) (G)	203-9A,219-1
	10A	H:STD/L:NON STD OUT	206-6B,202-26B
	11A	H:STD/L:NON STD OUT	206-6B,202-26B
CN PANEL,557-1	12A	DUB Y IN(X)	201-26B
CN PANEL,557-7	13A	DUB R-Y/B-Y IN(X)	201-10B
CN PANEL,557-5	14A	DUB B-Y/C DO IN(X)	201-11A
CN PANEL,557-3	15A	DUB R-Y/Y DO IN(X)	201-14A
CP-61,528-4	1B	GND	
CP-61,526-3	2B	CH-2 LINE OUT(X)	204-7A,206-14B
CP-61,522-5	3B	CH-1 LINE OUT(G)	204-18A,206-20A
CP-61,522-2	4B	AUDIO CH-1 OUT	206-13A
CP-61,525-1	5B	AUDIO CH-2 OUT(G)	206-12A
CP-61,522-1	6B	AUDIO MONITOR OUT(G)	206-11A
CP-61,525-3	7B	AUDIO MONITOR OUT(X)	206-11B
CP-61,522-4	8B	REG +12V OUT	+12V
CP-62,541-4	9B	VIDEO IN (LINE) (X)	203-8A,219-2
	10B	L:Y-B,R	201-23B,206-6A
	11B		
CN PANEL,557-2	12B	DUB Y IN(G)	201-27B
CN PANEL,557-8	13B	DUB R-Y/B-Y IN(G)	201-11B
CN PANEL,557-6	14B	DUB B-Y/C DO IN(G)	201-10A
CN PANEL,557-4	15B	DUB R-Y/Y DO IN(G)	201-13A

CN211

BC-6,454-1	1	GND	
BC-6,454-2	2	GND	
BC-6,454-3	3	REG +5V OUT	+5V
BC-6,454-4	4	REG +5V OUT	
BC-6,454-5	5		
BC-6,454-6	6	L:CH-2 LIMITER ON IN	201-9B
BC-6,454-7	7	L:MIX TO CH-2 REC/EE	201-23B
BC-6,454-8	8	L:CH-2 REC/EE IN	204-17A
BC-6,454-9	9	L:CH-1 REC/EE IN	204-32B
BC-6,454-10	10	L:CH-1 LIMITER ON IN	204-35B

CN212

BC-6,453-1	1	L:MIX TO CH-1 REC/EE	204-36B
BC-6,453-2	2	FAST IN	205-5B
BC-6,453-3	3	L:CH-2 BIAS ON IN	204-20A,205-7B
BC-6,453-4	4	L:CH-1 BIAS ON IN	204-26A,205-8B
BC-6,453-5	5	L:CH-2 ERASE ON IN	205-9B
BC-6,453-6	6	L:CH-1 ERASE ON IN	205-10B
BC-6,453-7	7	CH-2 RELAY ON	205-11B
BC-6,453-8	8	CH-1 RELAY ON	205-14B
BC-6,453-9	9	L:TC ERASE ON IN	205-17B
BC-6,453-10	10	TC RELAY ON	205-18B

CN213

BC-6,452-1	1	L:TC REC IN	204-16B,205-18A
BC-6,452-2	2	AUDIO CH-2 REC IN	204-23A,205-25B
BC-6,452-3	3	L:CH-2 PB CONTROL IN	204-23A,205-25B
BC-6,452-4	4	L:AUDIO CH-1 REC IN	205-28B
BC-6,452-5	5	L:CH-1 PB CONTROL IN	204-29B,205-27B
BC-6,452-6	6	L:AUDIO MUTE OUT	206-21A,23B,204-39B,205-39B
BC-6,452-7	7	L:VIDEO EE IN	203-33B,206-24B
BC-6,452-8	8	L:LIMITER ON OUT	206-24A
BC-6,452-9	9	L:MIXING TO CH-2 OUT	206-24B
BC-6,452-10	10	L:MIXING TO CH-1 OUT	206-25A

CN214

H903	1	AUDIO CH-1 HEAD(X)	205-37A
H903	2	AUDIO CH-1 HEAD(Y)	205-36A
H903	3	AUDIO CH-1 HEAD(G)	205-35A
H903	4	AUDIO CH-2 HEAD(X)	205-34A
H903	5	AUDIO CH-2 HEAD(Y)	205-33A
H903	6	AUDIO CH-2 HEAD(G)	205-32A

CN215

H903	1	CH-1 ERASE HEAD(G)	205-17A
H903	2	CH-1 ERASE HEAD(Y)	205-16A
H903	3	CH-1 ERASE HEAD(X)	205-15A
H903	4	CH-2 ERASE HEAD(G)	205-13A
H903	5	CH-2 ERASE HEAD(Y)	205-12A
H903	6	CH-2 ERASE HEAD(X)	205-11A
H903	7	TC ERASE HEAD(G)	205-9A
H903	8	TC ERASE HEAD(Y)	205-8A
H903	9	TC ERASE HEAD(X)	205-7A
	10		

CN216

MB-49,127-8	1	C DO OUT(X)	201-35A
MB-49,127-7	2	C DO OUT(G)	201-34A
MB-49,127-6	3	Y DO OUT(X)	201-32A
MB-49,127-5	4	Y DO OUT(G)	201-31A
	5		
	6		
MB-49,127-2	7	Y OUT(X)	201-28A
MB-49,127-1	8	Y OUT(G)	201-27A
MB-49,127-4	9	R-Y/B-Y OUT(X)	201-25A
MB-49,127-3	10	R-Y/B-Y OUT(G)	201-24A

CN217

SD-9,922-5	1	C-C SYNC OUT(X)	201-18B
SD-9,922-6	2	C-C SYNC OUT(G)	201-17B
SD-9,922-9	3	L:CTDN OUT	206-5A,B,201-13B

CN218

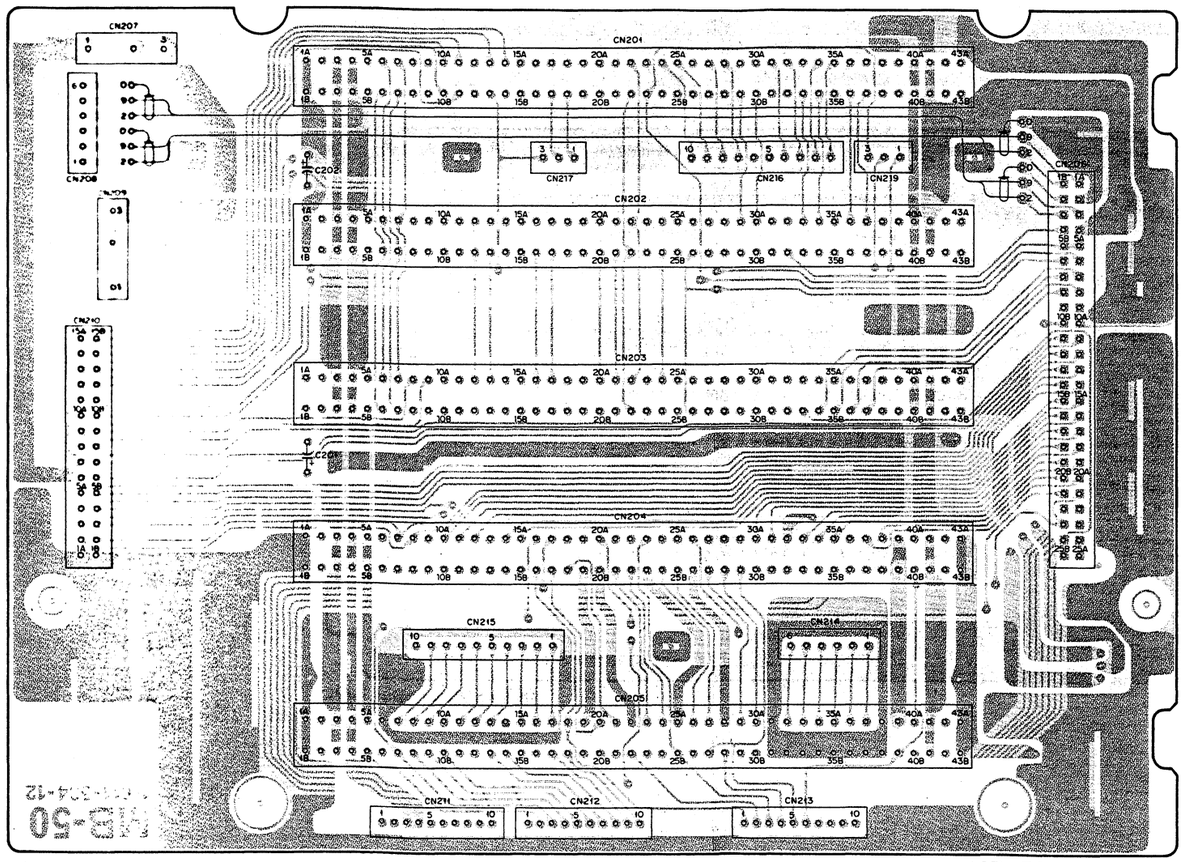
	1	REG +12V OUT	+12V
	2	GND	
	3	REG -12V OUT	-12V

CN219

MB-49,139-3	1	VIDEO IN(LINE) OUT(G)	210-9A,203-9A
MB-49,139-2	2	VIDEO IN(LINE) OUT(X)	210-9B,203-8A
MB-49,139-1	3	L:Y-B,R OUT	206-6A,201-23B,210-10B

MB-50
1-611-534-12
BVW-405

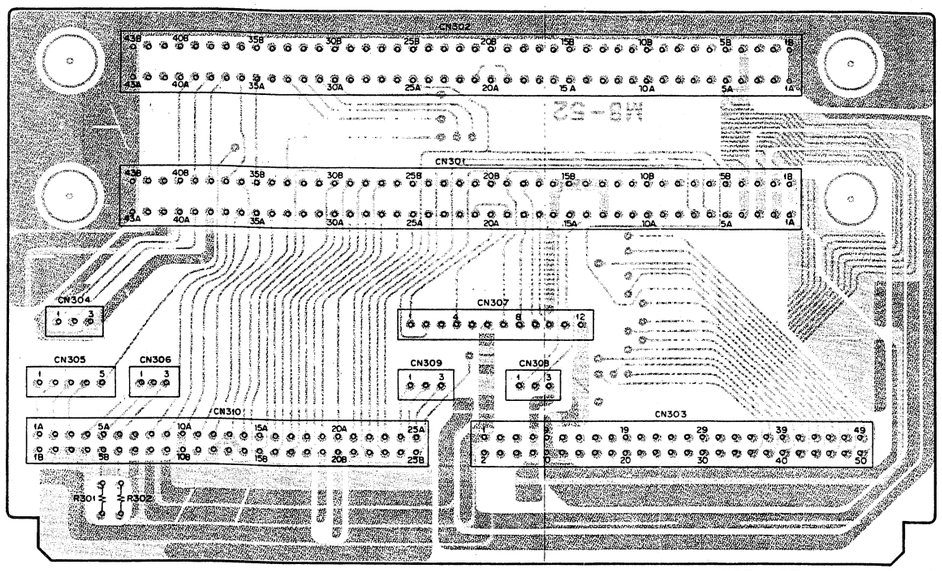
MB-50 (MOTHER BOARD)



MB-50 – SOLDERING SIDE –

1-611-534-12
BVW-40
BVW-40P
BVW-40S

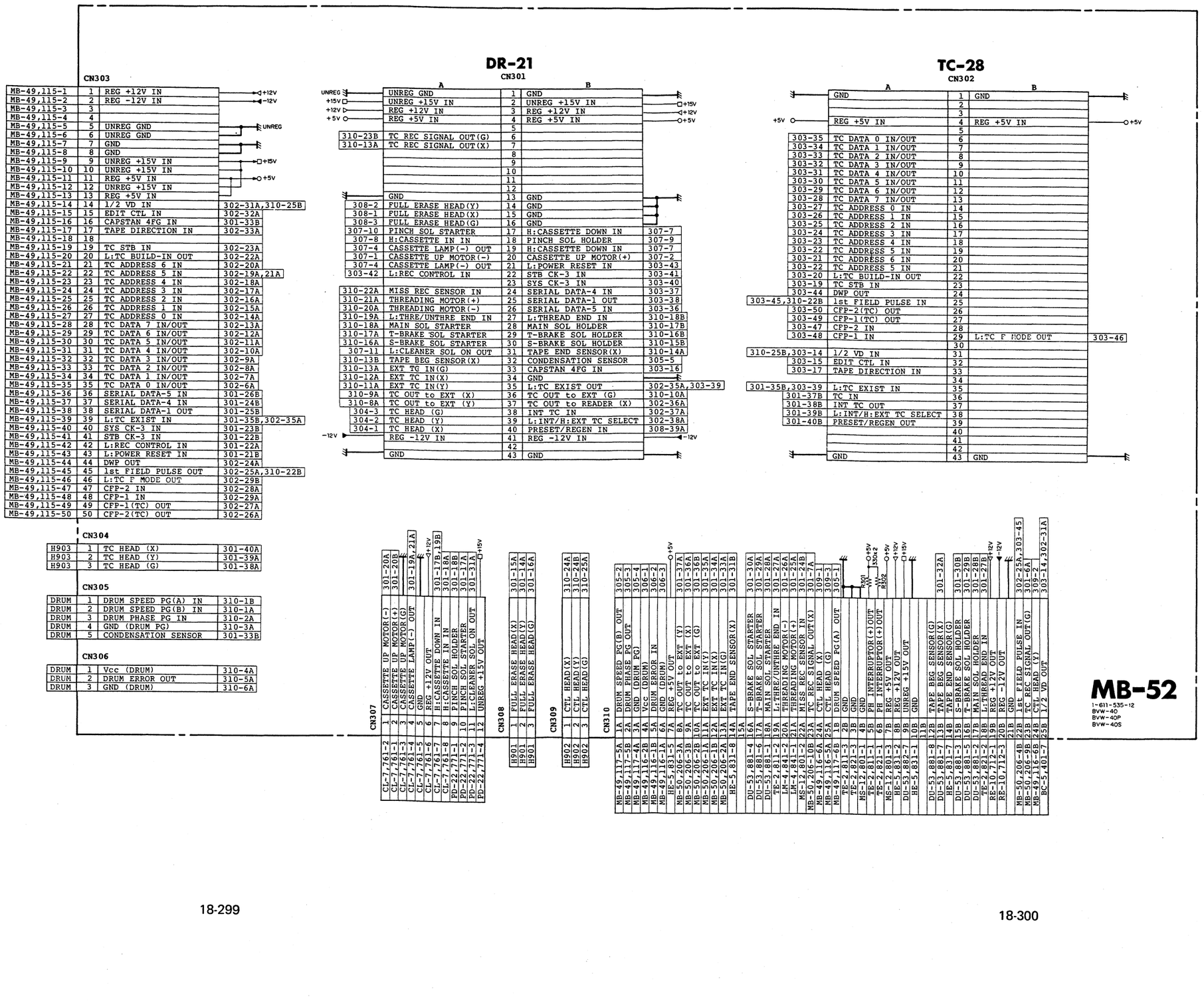
MB-52 (MOTHER BOARD)



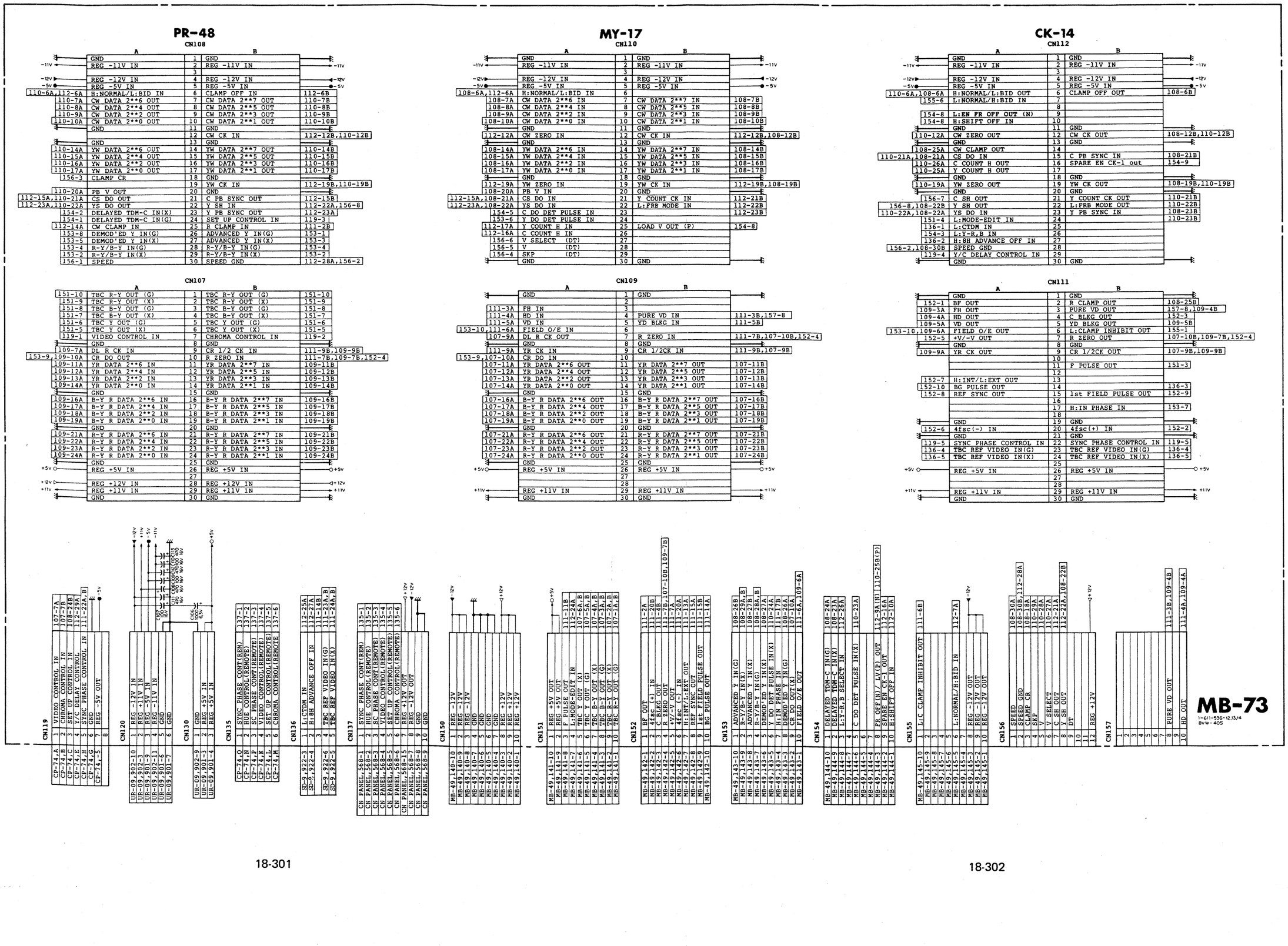
MB-52 – SOLDERING SIDE –

1-611-535-12
BVW-40
BVW-40P
BVW-40S

MB-52 (MOTHER BOARD)

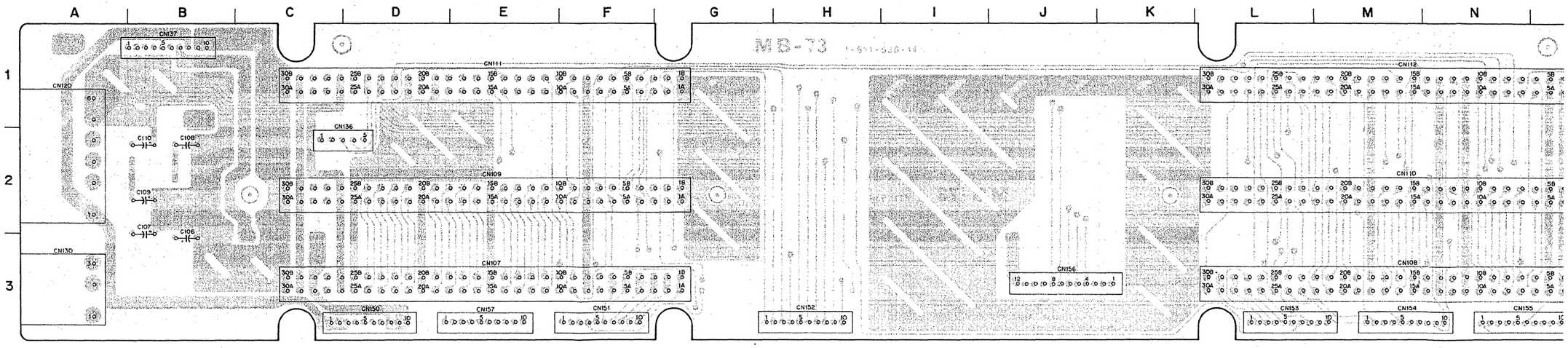


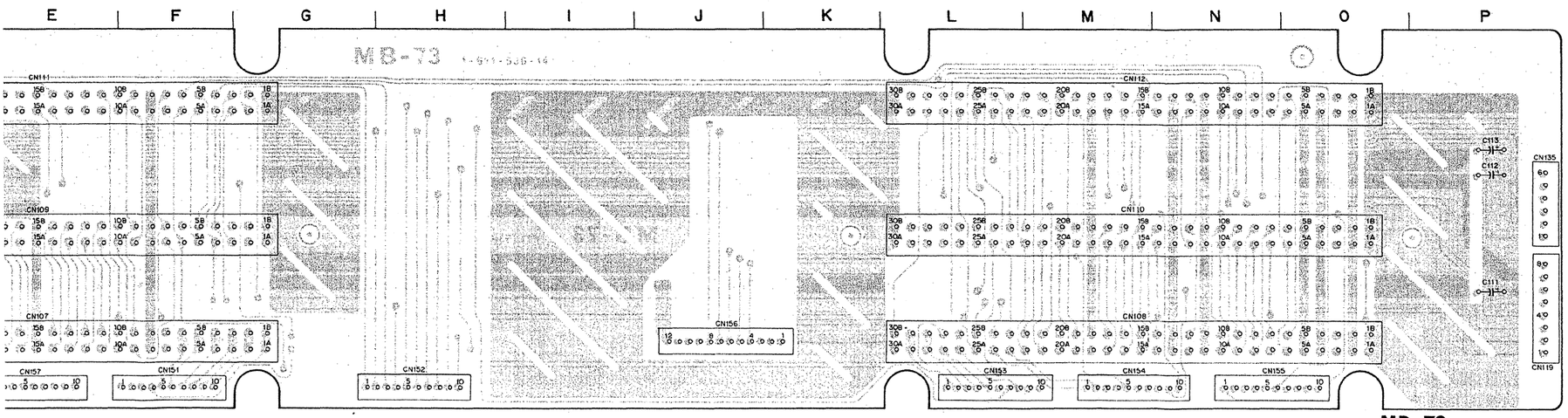
MB-73 (MOTHER BOARD)



MB-73 (MOTHER BOARD)

CN107	E - 3
CN108	M - 3
CN109	E - 2
CN110	M - 2
CN111	E - 1
CN112	M - 1
CN119	P - 3
CN120	A - 2
CN130	A - 3
CN135	P - 2
CN136	C - 2
CN137	B - 1
CN150	D - 3
CN151	F - 3
CN152	H - 3
CN153	L - 3
CN154	M - 3
CN155	N - 3
CN156	J - 3
CN157	E - 3

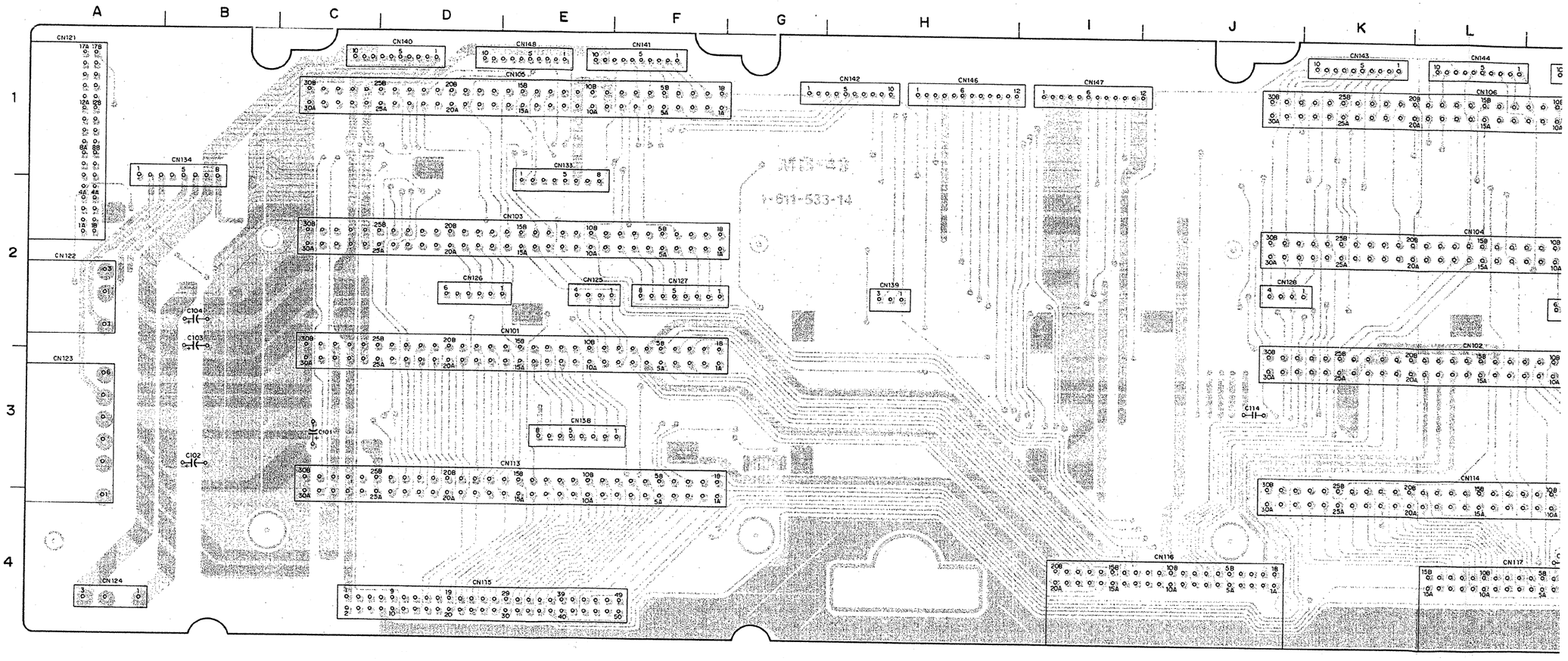


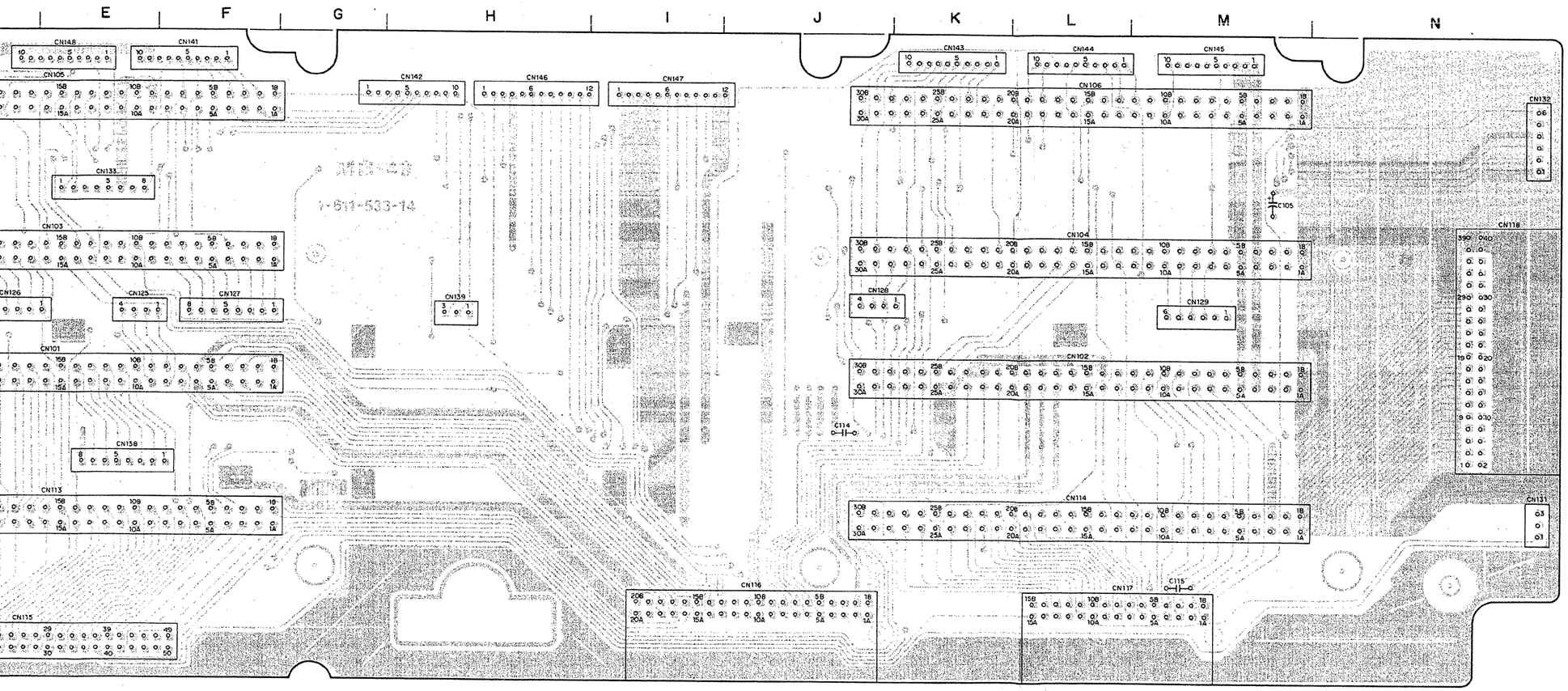


MB-73 -SOLDERING SIDE-
1-611-536-14
BVW-40S

MB-49 MB-49

MB-49 (MOTHER BOARD)





CN101 E - 2
CN102 L - 2
CN103 E - 2
CN104 L - 2
CN105 E - 1
CN106 L - 1
CN113 E - 3
CN114 L - 3
CN115 D - 4
CN116 J - 4
CN117 L - 4
CN118 N - 2
CN121 A - 1
CN122 A - 2
CN123 A - 3
CN124 A - 4
CN125 E - 2
CN126 D - 2
CN127 F - 2
CN128 J - 2
CN129 M - 2
CN131 N - 3
CN132 N - 1
CN133 E - 1
CN134 B - 1
CN138 E - 3
CN139 H - 2
CN140 D - 1
CN141 F - 1
CN142 H - 1
CN143 K - 1
CN144 L - 1
CN145 M - 1
CN146 H - 1
CN147 I - 1
CN148 E - 1

MB-49 -SOLDERING SIDE-
1-611-533-14
BVW-40S

MB-49 (MOTHER BOARD)

SY-4

CN114

A		B	
	GND	1	GND
		2	
		3	
		4	
		5	
		6	
118-15	INT SCAN LINE 1 OUT	7	INT SCAN LINE 2 OUT 118-16
118-14	INT SCAN LINE 0 OUT	8	INT SCAN LINE 3 OUT 118-17
118-12	INT RETURN LINE 7 IN	9	INT A0 OUT 118-19
118-11	INT RETURN LINE 6 IN	10	INT A1 OUT 118-20
118-10	INT RETURN LINE 5 IN	11	INT A2 OUT 118-21
118-9	INT RETURN LINE 4 IN	12	INT A3 OUT 118-22
118-8	INT RETURN LINE 3 IN	13	INT B0 OUT 118-23
118-7	INT RETURN LINE 2 IN	14	INT B1 OUT 118-24
118-6	INT RETURN LINE 1 IN	15	INT B2 OUT 118-25
118-5	INT RETURN LINE 0 IN	16	INT B3 OUT 118-26
118-27	INT KEY MUTE OUT	17	INT BLANK DISPLAY OUT 118-28
117-6A	L:TC PRESET BUTTON IN	18	L:VTR CONT-EXT IN 132-6
117-7A	L:TC ADVANCE-BUTTON	19	H:CTL/L:TC IN 117-7B
117-8A	L:TC SHIFT BUTTON IN	20	L:REMOTE-2 SELECT IN 117-8B
117-9A	L:TC HOLD BUTTON IN	21	L:REMOTE-1 SELECT IN 117-9B
116-9B	L:U-BIT SELECT IN	22	AUTO OFF LAMP OUT 117-10B
117-11B	TC HOLD LAMP OUT	23	HOURS METER (+) OUT 131-1
147-6,117-11A	STB CK-1 OUT	24	L:NORMAL/H:EDIT IN 116-2A
147-7,117-12B	SYS CK-1 OUT	25	L:NORMAL/H:BID OUT 104-7B,106-7A,145-5
117-13B	SERIAL DATA-6 OUT	26	L:FFWD CONT OUT 104-17A
117-13A	SERIAL DATA-7 OUT	27	L:COMB FILTER OFF OUT 106-27B
117-14B	SERIAL DATA-8 OUT	28	1st FIELD PULSE IN 115-45
117-14A	L:BIAS OSC ON OUT	29	SYS CK-3 OUT 115-40
117-15B	L:AUDIO MUTE OUT	30	SERIAL DATA-1 IN 115-38

CN113

A		B	
118-3 115-43	L:POWER RESET OUT	1	L:DT SELECT-VAR IN 116-16A
117-15A,115-42	L:REC CONT OUT	2	L:DT SELECT-SEARCH IN 116-16B
115-41	STB CK-3 OUT	3	SERIAL DATA-3 IN 146-12
115-39	L:TC EXIST IN	4	SERIAL DATA-9 OUT 146-11
115-37	SERIAL DATA-4 OUT	5	SERIAL DATA-10 OUT 101-24A
115-35	TC DATA 0 IN/OUT	6	SERIAL DATA-5 OUT 115-36
115-33	TC DATA 1 IN/OUT	7	TC DATA 1 IN/OUT 115-34
115-31	TC DATA 4 IN/OUT	8	TC DATA 3 IN/OUT 115-32
115-29	TC DATA 6 IN/OUT	9	TC DATA 5 IN/OUT 115-30
115-27	TC ADDRESS 0 OUT	10	TC DATA 7 IN/OUT 115-28
115-25	TC ADDRESS 2 OUT	11	TC ADDRESS 1 OUT 115-26
115-23	TC ADDRESS 4 OUT	12	TC ADDRESS 3 OUT 115-24
115-21	TC ADDRESS 6 OUT	13	TC ADDRESS 5 OUT 115-22
115-20	L:TC BUILD-IN IN	14	H:CHROMA MUTE OUT 103-10A,105-8A
115-44	DWP IN	15	TC STB OUT 115-19
101-16A,115-17	TAPE DIRECTION IN	16	S-REEL 4FG IN 101-16B
101-17A	TAPE ROLLER PULSE IN	17	T-REEL 4FG IN 101-17B
101-18A,115-15	EDIT CTL IN	18	CAPSTAN 4FG IN 101-18B,115-16
146-6,101-19A,115-14	1/2 VD IN	19	SEARCH FREQ OUT 101-19B
101-20A	SERIAL DATA-3 OUT	20	SERIAL DATA-2 IN 101-20B
101-21A	SERIAL DATA-2 OUT	21	STB CK-2 OUT 101-21B
101-22A	SERIAL DATA-1 OUT	22	SYS CK-2 OUT 101-22B
101-23A	SYNCHRONIZE OUT	23	L:8H ADVANCE OFF OUT 121-8A
146-10	DT UNREADY IN	24	CFP-1 IN 106-19A
123-5	UNREG +9V IN	25	UNREG +9V IN 123-5
+5V	REG +5V IN	26	REG +5V IN +5V
+12V	REG +12V IN	27	REG +12V IN +12V
		28	
133-3	H:PLAYER NOR FWD OUT	29	L:MODE-EDIT OUT 133-8,141-7
	GND	30	GND

SV-55

CN102

A		B	
	GND	1	GND
		2	
-15V	UNREG -15V IN	3	UNREG -15V IN -15V
-12V	REG -12V IN	4	REG -12V IN -12V
-5V	REG -5V IN	5	REG -5V IN -5V
117-1B	GND (TRACKING CONT)	6	
117-1A	TRACKING CONTROL IN	7	GND
117-2B	Vcc (TRACKING CONT)	8	Vcc (CAPSTAN FG) 117-2A
		9	CAPSTAN FG(B) IN 117-3B
		10	CAPSTAN FG(A) IN 117-3A
117-4A	GND (DRUM PG)	11	GND (CAPSTAN FG) 117-4B
117-5B	DRUM PHASE PG IN	12	GND
117-5A	DRUM SPEED PG(B) IN	13	GND
117-6B	DRUM SPEED PG(A) IN	14	GND
123-6	UNREG GND (CAPSTAN)	15	UNREG GND (CAPSTAN) 123-6
123-6	UNREG GND (DRUM)	16	GND (CAPSTAN) 116-5B
116-1A	GND (DRUM)	17	CAPSTAN F/R CONTROL 116-4A
116-1B	DRUM ERROR OUT	18	CAPSTAN ERROR OUT 116-4B
116-2B	Vcc (DRUM)	19	Vcc (CAPSTAN) 116-3B
		20	
116-5A	CTL HEAD(G)	21	DT SW'ING PULSE OUT 147-8
116-6B	CTL HEAD(Y)	22	GND
116-6A	CTL HEAD(X)	23	GND
	GND	24	Y SW'ING PULSE OUT(G) 104-15A
	GND	25	Y SW'ING PULSE OUT(X) 104-16A,147-9
116-7B	GND (PG)	26	DEMOD'ED Y IN(G) 104-26B,143-3
116-7A	SHAPED PHASE PG OUT	27	DEMOD'ED Y IN(X) 104-27B,143-6
116-8B	SHAPED SPEED PG(B) OUT	28	CFP-1(TC) IN 115-49
116-8A	SHAPED SPEED PG(A) OUT	29	CFP-2(TC) IN 115-50
	L:SERVO LOCK	30	SV SYNC IN(X) 133-7

CN101

A		B	
146-8	SHAPED CAP FG(A) OUT	1	SHAPED CTL OUT 146-7
146-9	SHAPED CAP FG(B) OUT	2	GND (T-REEL) 116-15A
116-17B	GND (S-REEL)	3	T-REEL FG2 IN 116-15B
116-17A	S-REEL FG2 IN	4	T-REEL FG1 IN 116-14A
116-18B	S-REEL FG1 IN	5	Vcc (REEL FG) 116-14B
	GND	6	GND
116-19B	TAPE ROLL PULSE IN(G)	7	TAPE ROLL PULSE IN(X) 116-18A
125-1	GND (TENSION SENSOR)	8	TENSION SENSOR(+) IN 125-2
125-4	Vcc (TENSION SENSOR)	9	TENSION SENSOR(-) IN 125-3
115-46	L:TC F MODE IN	10	H:SHIFT OFF OUT 106-12B,144-1
		11	GND (REEL) 138-1
138-3	S-REEL CURRENT IN	12	T-REEL CURRENT IN 138-2
138-5	S-REEL ERROR OUT	13	T-REEL ERROR OUT 138-4
138-7	S-REEL DRIVE OUT	14	T-REEL DRIVE OUT 138-6
115-18	L:TC REC STOP OUT	15	F PULSE IN 105-19A,141-8
115-17,113-16A	TAPE DIRECTION OUT	16	S-REEL 4FG OUT 113-16B
113-17A	TAPE ROLLER PULSE OUT	17	T-REEL 4FG OUT 113-17B
115-15,113-18A	EDIT CTL OUT	18	CAPSTAN 4FG OUT 113-18B,115-16
146-6,115-14,113-19A	1/2 VD OUT	19	SEARCH FREQ IN 113-19B
113-20A	SERIAL DATA-3 IN	20	SERIAL DATA-2 OUT 113-20B
113-21A	SERIAL DATA-2 IN	21	STB CK-2 IN 113-21B
113-22A	SERIAL DATA-1 IN	22	SYS CK-2 IN 113-22B
113-23A	SYNCHRONIZE IN	23	L:8H ADVANCE OFF IN 121-4B,133-4
113-5B	SERIAL DATA-10 IN	24	H:VIDEO DET IN
		25	
+5V	REG +5V IN	26	REG +5V IN +5V
+12V	REG +12V IN	27	REG +12V IN +12V
+15V	UNREG +15V IN	28	UNREG +15V IN +15V
		29	
	GND	30	GND

CN115

A		B	
	GND	1	GND
		2	
-12V	REG -12V IN	3	
-5V	(REG -5V IN)	4	
129-3	Y RF CH-B IN(G)	5	
129-4	Y RF CH-B IN(X)	6	
129-5	Y RF CH-A IN(G)	7	
129-6	Y RF CH-A IN(X)	8	
		9	
117-12A	L:CTDM IN	10	
		11	
102-24B	Y SW'ING PULSE IN(G)	12	
147-9,102-25B	Y SW'ING PULSE IN(X)	13	
114-26B	L:FFWD CONTROL IN	14	
		15	
		16	
		17	
		18	
		19	
		20	
		21	
		22	
		23	
128-1	Y REC RF OUT(G)	24	
128-2	Y REC RF OUT(X)	25	
128-3	C REC RF OUT(G)	26	
128-4	C REC RF OUT(X)	27	

CN116

A		B	
		1	
		2	
127-1	Y IN (G)	3	
127-2	Y IN (X)	4	
127-3	C IN (G)	5	
127-4	C IN (X)	6	
127-5	Y DO IN (G)	7	
127-6	Y DO IN (X)	8	
127-7	C DO IN (G)	9	
127-8	C DO IN (X)	10	
105-8A,113-14B	H:CHROMA MUTE IN	11	
		12	
105-22A,116-12A	L:VIDEO EE IN	13	
116-12B	C SW'ING PULSE IN	14	
116-11A	C SW'ING PULSE IN	15	
		16	
126-1	C RF CH-B IN(G)	17	
126-2	C RF CH-B IN(X)	18	
126-3	C RF CH-A IN(G)	19	
126-4	C RF CH-A IN(X)	20	
		21	
121-5A	U-DUB Y OUT(X)	22	
121-5B	U-DUB Y OUT(G)	23	
121-7B	DUB Y OUT(X)	24	
121-7A	DUB Y OUT(G)	25	
+5V	REG +5V IN	26	
+12V	REG +12V IN	27	
		28	
		29	
	GND	30	

CN117

BF-7,610-6	1A	TRACKING CONTROL IN	102-7A
CAPSTAN MOTOR	2A	Vcc (CAPSTAN FG)	102-8B
CAPSTAN MOTOR	3A	CAPSTAN FG(A) IN	102-10B
MB-52,310-3A	4A	GND (SPEED PG)	101-13B
MB-52,310-2A	5A	SPEED PG(B) IN	101-13A
SW-7,622-1	6A	L:TC PRESET BUTTON IN	114-18A
SW-7,622-2	7A	L:TC ADVANCE BUTTON	114-19A
SW-7,622-3	8A	L:TC SHIFT BUTTON IN	114-20A
SW-7,622-4	9A	L:TC HOLD BUTTON IN	114-21A
	10A		
BC-6,451-1	1B	STB CK-1 OUT	114-24A
MB-50,206-5B	2B	L:CTDM IN	104-13A,121-1B
BC-6,451-4	3B	SERIAL DATA-7 OUT	114-27A
MB-50,206-23A	4B	L:BIAS OSC ON OUT	114-29A
BC-6,451-8	5B	L:REC CONT OUT	115-42
	6B	GND (TRACKING CONT)	102-6A
BF-7,610-7	7B	VCC (TRACKING CONT)	102-8A
CAPSTAN MOTOR	8B	CAPSTAN FG(B) IN	102-9B
CAPSTAN MOTOR	9B	VCC (CAPSTAN FG)	102-11B
MB-52,310-2A	10B	GND (CAPSTAN FG)	102-12A
MB-52,310-1A	11B	DRUM PHASE PG IN	102-14A
SW-7,623-5	12B	SPEED PG(B) IN	101-19B
SW-7,623-4	13B	L:REMOTE-2 SELECT IN	114-20B
SW-7,623-3	14B	L:REMOTE-1 SELECT IN	114-21B
SW-7,621-1	15B	AUTO OFF LAMP OUT	114-22B
SW-7,621-2	16B	TC HOLD LAMP OUT	114-23B
BC-6,451-2	17B	SYS CK-1 OUT	114-25A
BC-6,451-5	18B	SERIAL DATA-6 OUT	114-26A
BC-6,451-3	19B	SERIAL DATA-8 OUT	114-28A
MB-50,206-23B	20B	AUDIO MUTE OUT	114-30A

CN118

KY-45,661-1	1		113-1A,115-43
KY-45,661-2	2	L:POWER RESET OUT	
KY-45,661-3	3		114-16A
KY-45,661-4	4	INT RETURN LINE 0 IN	114-15A
KY-45,661-5	5	INT RETURN LINE 1 IN	114-14A
KY-45,661-6	6	INT RETURN LINE 2 IN	114-13A
KY-45,661-7	7	INT RETURN LINE 3 IN	114-12A
KY-45,661-8	8	INT RETURN LINE 4 IN	114-11A
KY-45,661-9	9	INT RETURN LINE 5 IN	114-10A
KY-45,661-10	10	INT RETURN LINE 6 IN	114-9A
KY-45,661-11	11	INT RETURN LINE 7 IN	
KY-45,661-12	12		114-8A
KY-45,661-13	13	INT SCAN LINE 0 OUT	114-7A
KY-45,661-14	14	INT SCAN LINE 1 OUT	114-7B
KY-45,661-15	15	INT SCAN LINE 2 OUT	114-8B
KY-45,661-16	16	INT SCAN LINE 3 OUT	
KY-45,661-17	17		114-9B
KY-45,661-18	18		114-10B
KY-45,661-19	19	INT A0 OUT	114-11B
KY-45,661-20	20	INT A1 OUT	114-12B
KY-45,661-21	21	INT A2 OUT	114-13B
KY-45,661-22	22	INT A3 OUT	114-14B
KY-45,661-23	23	INT B0 OUT	114-15B
KY-45,661-24	24	INT B1 OUT	114-16B
KY-45,661-25	25	INT B2 OUT	114-17B
KY-45,661-26	26	INT B3 OUT	
KY-45,661-27	27	INT BLANK DISPLAY OUT	
KY-45,661-28	28		+5V
KY-45,661-29	29	REG +5V	
KY-45,661-30	30	REG +5V	
KY-45,661-31	31	REG +5V	
KY-45,661-32	32		
KY-45,661-33	33		
KY-45,661-34	34		
KY-45,661-35	35		
KY-45,661-36	36		
KY-45,661-37	37	GND	
KY-45,661-38	38	GND	
KY-45,661-39	39	GND	
KY-45,661-40	40	GND	

CN121

	1A		
	2A		
	3A		
	4A		
CN PANEL,559-1	5A	U-DUB Y OUT(X)	103-22A
CN PANEL,559-2	6A	U-DUB Y OUT(G)	103-24B
CN PANEL,558-2	7A	DUB Y OUT(X)	103-25A
	8A	L:8H ADVANCE OFF	113-23B
	9A		
CN PANEL,560-2	10A	TV VIDEO OUT(X)	105-14A
CN PANEL,556-2	11A	VIDEO OUT-2 (X)	105-15A
CN PANEL,555-2	12A	VIDEO OUT-1 (X)	105-18A
CN PANEL,559-6	13A	U-DUB CHROMA OUT(G)	105-21A
CN PANEL,558-3	14A	R-Y/T-DO OUT(X)	105-19B
CN PANEL,558-5	15A	B-Y/C-DO OUT(X)	105-17B
	16A		
CP-62,541-1	1B	L:CTDM OUT	117-12A,104-13A
	2B	REG +5V	+5V
	3B		
	4B	L:8H ADVANCE OFF	101-23B,133-4
	5B	U-DUB Y OUT(G)	103-23B
	6B	DUB Y OUT(X)	103-24A
	7B	DUB Y OUT(G)	
	8B		
CN PANEL,560-6	9B	TV VIDEO OUT(G)	105-13A
CN PANEL,556-6	10B	VIDEO OUT-2 (G)	105-15A
CN PANEL,555-6	11B	VIDEO OUT-1 (G)	105-20A
CN PANEL,559-4	12B	U-DUB CHROMA OUT(X)	105-20B
CN PANEL,558-4	13B	R-Y/T-DO OUT(G)	105-20B
CN PANEL,558-6	14B	B-Y/C-DO OUT(G)	105-18B
CN PANEL,558-11	15B	L:DUB/H:COMPONENT IN	103-16B,105-16B
	16B		
CN PANEL,559-7	17B	U-F OUT	105-24A

CN122

UR-09,902-12	1	UNREG -15V IN
UR-09,901-2	2	REG -25V IN
UR-09,902-2	3	REG +12V IN

CN123

UR-09,902-7	1	UNREG GND
UR-09,901-5	2	GND
UR-09,901-3	3	REG +15V IN
UR-09,902-3	4	REG +5V IN
UR-09,902-4	5	UNREG +9V IN
UR-09,902-8	6	UNREG GND

CN124

MB-50,207-3	1	REG -5V IN
MB-50,207-2	2	REG +5V OUT
MB-50,207-1	3	REG -12V OUT

CN125

TR-18,891-4	1	GND (TENSION SENSOR)
TR-18,891-2	2	TENSION SENSOR(+) IN
TR-18,891-3	3	TENSION SENSOR(-) IN
TR-18,891-1	4	Vcc (TENSION SENSOR)

CN126

RP-15,704-4	1	C RF CH-B IN(G)
RP-15,704-3	2	C RF CH-B IN(X)
RP-15,704-2	3	C RF CH-A IN(G)
RP-15,704-1	4	C RF CH-A IN(X)
RP-15,704-5	5	REG +9V OUT

CN103

	1	GND
	2	
-12V	3	REG -12V IN
-5V	4	(REG -5V IN)
129-3	5	Y RF CH-B IN(G)
129-4	6	Y RF CH-B IN(X)
129-5	7	Y RF CH-A IN(G)
129-6	8	Y RF CH-A IN(X)
	9	
117-12A	10	L:CTDM IN
	11	
102-24B	12	Y SW'ING PULSE IN(G)
147-9,102-25B	13	Y SW'ING PULSE IN(X)
114-26B	14	L:FFWD CONTROL IN
	15	
	16	
	17	
	18	
	19	
	20	
	21	
	22	
	23	
128-1	24	Y REC RF OUT(G)
128-2	25	Y REC RF OUT(X)
128-3	26	C REC RF OUT(G)
128-4	27	C REC RF OUT(X)

CN104

	1	
	2	
127-1	3	Y IN (G)
127-2	4	Y IN (X)
127-3	5	C IN (G)
127-4	6	C IN (X)
127-5	7	Y DO IN (G)
127-6	8	Y DO IN (X)
127-7	9	C DO IN (G)
127-8	10	C DO IN (X)
105-8A,113-14B	11	H:CHROMA MUTE IN
	12	
105-22A,116-12A	13	L:VIDEO EE IN
116-12B	14	C SW'ING PULSE IN
116-11A	15	C SW'ING PULSE IN
	16	
126-1	17	C RF CH-B IN(G)
126-2	18	C RF CH-B IN(X)
126-3	19	C RF CH-A IN(G)
126-4	20	C RF CH-A IN(X)
	21	
121-5A	22	U-DUB Y OUT(X)
121-5B	23	U-DUB Y OUT(G)
121-7B	24	DUB Y OUT(X)
121-7A	25	DUB Y OUT(G)
+5V	26	REG +5V IN
+12V	27	REG +12V IN
	28	
	29	
	30	GND

YC-14

CN104

A		B		
	GND	1	GND	
		2		
		3		
-12V	REG -12V IN	4	REG -12V IN	-12V
-5V	(REG -5V IN)	5	(REG -5V IN)	-5V
		6		
129-3	Y RF CH-B IN(G)	7	L:NORMAL/H:BID IN	114-25B,106-7A,145-5
129-4	Y RF CH-B IN(X)	8		
129-5	Y RF CH-A IN(G)	9		
129-6	Y RF CH-A IN(X)	10		
		11		
		12		
117-12A	L:CTDM IN	13		
		14		
102-24B	Y SW'ING PULSE IN(G)	15	C DO DET PULSE OUT(G)	106-15A
147-9,102-25B	Y SW'ING PULSE IN(X)	16	C DO DET PULSE OUT(X)	106-16A,144-6
114-26B	L:FFWD CONTROL IN	17		
		18		
		19		
		20	DEMOD'ED C OUT(G)	106-20B
		21	DEMOD'ED C OUT(X)	106-21B
		22		
		23		
		24	Y DO DET PULSE OUT(G)	106-24B
		25	Y DO DET PULSE OUT(X)	106-25B,143-5,147-10
		26	DEMOD'ED Y OUT(G)	102-26B,143-3
128-1	Y REC RF OUT(G)	27	DEMOD'ED Y OUT(X)	102-27B,143-6
128-2	Y REC RF OUT(X)	28		
128-3	C REC RF OUT(G)	29	ADVANCED Y OUT(X)	143-8
128-4	C REC RF OUT(X)	30	ADVANCED Y OUT(G)	143-10

CN103

A		B		
127-1	Y IN (G)	1		
127-2	Y IN (X)	2		
127-3	C IN (G)	3	TBC Y IN(X)	141-6,105-7B
127-4	C IN (X)	4	TBC Y IN(G)	141-5,105-6B
127-5	Y DO IN (G)	5		
127-6	Y DO IN (X)	6		
127-7	C DO IN (G)	7		
127-8	C DO IN (X)	8	RF ENVELOPE OUT (DT)	146-8
		9		
105-8A,113-14B	H:CHROMA MUTE IN	10	RF METER OUT	116-13B
		11		
		12		
105-22A,116-12A	L:VIDEO EE IN	13	INV REF SYNC IN(X)	105-23B
116-12B	C SW'ING PULSE IN(G)	14	INV REF SYNC IN(G)	105-24B
116-11A	C SW'ING PULSE IN(X)	15		
		16	L:DUB/H:COMPONENT IN	121-15B,105-16B
126-1	C RF CH-B IN(G)	17		
126-2	C RF CH-B IN(X)	18		
126-3	C RF CH-A IN(G)	19		
126-4	C RF CH-A IN(X)	20		
		21		
121-5A	U-DUB Y OUT(X)	22		
121-5B	U-DUB Y OUT(G)	23	DUB C OUT(X)	121-6B
121-7B	DUB Y OUT(X)	24	DUB C OUT(G)	121-6A
121-7A	DUB Y OUT(G)	25		
+5V	REG +5V IN	26	REG +5V IN	+5V
+12V	REG +12V IN	27	REG +12V IN	+12V
		28		
		29		
	GND	30	GND	

EN-34

CN106

A		B		
	GND	1	GND	
		2		
		3		
-12V	REG -12V IN	4	REG -12V IN	-12V
-5V	REG -5V IN	5	REG -5V IN	-5V
		6		
,104-7B,114-25B 145-5	L:NORMAL/H:BID IN	7		
		8		
		9		
145-10	L:C CLAMP INHIBIT IN	10	L:C CLAMP INHIBIT IN	145-10
		11		
144-3	FR OFF(N)/ LV(P) IN	12	H:SHIFT OFF IN	101-10B,144-1
		13	SPARE EN CK-1 IN	144-2
		14		
104-15B	C DO DET PULSE IN(G)	15	1st FIELD PULSE IN	142-9
144-6,104-16B	C DO DET PULSE IN(X)	16		
113-24B	CFP-1 OUT	17		
115-48	CFP-1 OUT	18	DELAYED TDM-C OUT(X)	144-9
		19	DELAYED TDM-C OUT(G)	144-10
115-47	CFP-2 OUT	20	DEMOD'ED C IN(G)	104-20B
		21	DEMOD'ED C IN(X)	104-21B
		22	CR DO IN(G)	
143-1	FIELD O/E IN	23	CR DO IN(X)	143-2
		24	Y DO DET PULSE IN(G)	104-24B
143-4	H:IN PHASE OUT	25	Y DO DET PULSE IN(X)	104-25B,143-5, 147-10
		26		
		27	L:COMB FILTER OFF IN	114-27B
132-2	HUE CONTROL IN	28	R-Y/B-Y OUT(G)	143-7
		29	R-Y/B-Y OUT(X)	143-9
	GND	30	GND	

CN105

A		B		
142-3	C BLKG IN	1	BF IN	142-1
142-4	R ZERO IN	2	TBC R-Y IN (G)	141-1
	GND	3	TBC R-Y IN (X)	141-2
142-5	+V/-V IN	4	TBC B-Y IN (G)	141-3
148-3	PURE VD IN	5	TBC B-Y IN (X)	141-4
132-1	SC PHASE CONTROL IN	6	TBC Y IN (G)	141-5,103-4B
148-1	HD IN	7	TBC Y IN (X)	141-6,103-3B
103-10A,113-14B	H:CHROMA MUTE IN	8	H:VIDEO MUTE IN	
	GND	9	GND	
142-6	4fsc(-) OUT	10	4fsc(+) OUT	142-2
	GND	11	GND	
142-7	H:INT/L:EXT IN	12	BG PULSE IN(X)	142-10
121-9B	TV VIDEO OUT(G)	13	REF SYNC IN	142-8
121-10A	TV VIDEO OUT(X)	14	REF VIDEO IN(G)	133-2
121-10B	VIDEO OUT-2 (G)	15	REF VIDEO IN(X)	133-1
121-11A	VIDEO OUT-2 (X)	16	L:DUB/H:COMPONENT IN	121-15B,103-16B
121-11B	VIDEO OUT-1 (G)	17	B-Y/C-DO OUT(X)	121-15A
121-12A	VIDEO OUT-1 (X)	18	B-Y/C-DO OUT(G)	121-14B
101-15B,141-8	F PULSE IN	19	R-Y/Y-DO OUT(X)	121-14A
121-12B	U-DUB CHROMA OUT(X)	20	R-Y/Y-DO OUT(G)	121-13B
121-13A	U-DUB CHROMA OUT(G)	21	VIDEO IN (LINE)(X)	139-2
103-13A,116-12A	L:VIDEO EE IN	22	VIDEO IN (LINE)(G)	139-3
131-2	H:BY-PASS ON IN	23	INV REF SYNC OUT(X)	103-13B
121-17B	U-F OUT	24	INV REF SYNC OUT(G)	103-14B
		25		
+5V	REG +5V IN	26	REG +5V IN	+5V
+12V	REG +12V IN	27	REG +12V IN	+12V
		28		
		29		
	GND	30	GND	

CN142

105-1B	BF IN	1	MB-73,152-1
105-10B	4fsc (+) OUT	2	MB-73,152-2
105-1A	C BLKG IN	3	MB-73,152-3
105-2A	R ZERO IN	4	MB-73,152-4
105-4A	+V/-V IN	5	MB-73,152-5
105-10A	4fsc (-) OUT	6	MB-73,152-6
105-12A	H:INT/L:EXT IN	7	MB-73,152-7
105-13B	REF SYNC IN	8	MB-73,152-8
106-15B	1st FIELD PULSE IN	9	MB-73,152-9
105-12B	BG PULSE IN	10	MB-73,152-10

CN143

106-23A	FIELD O/E IN	1	MB-73,153-10
106-23B	CR DO IN(X)	2	MB-73,153-9
104-26B,102-26B	DEMOD'ED Y OUT(G)	3	MB-73,153-8
106-25A	H:IN PHASE OUT	4	MB-73,153-7
104-25B,106-25B,147-10	Y DO DET PULSE OUT(X)	5	MB-73,153-6
104-27B,102-27B	DEMOD'ED Y OUT(X)	6	MB-73,153-5
106-28B	R-Y/B-Y OUT(G)	7	MB-73,153-4
104-29B	ADVANCED Y OUT(X)	8	MB-73,153-3
106-29B	R-Y/B-Y OUT(X)	9	MB-73,153-2
104-30B	ADVANCED Y OUT(G)	10	MB-73,153-1

CN144

101-10B,106-12B	H:SHIFT OFF OUT	1	MB-73,154-10
106-13B	SPARE EN CK-1 IN	2	MB-73,154-9
106-12A	FR OFF(N)/ LV (P) IN	3	MB-73,154-8
		4	MB-73,154-7
		5	MB-73,154-6
104-16B,106-16A	C DO DET PULSE OUT(X)	6	MB-73,154-5
		7	MB-73,154-4
139-1	L:Y-R,B SELECT OUT	8	MB-73,154-3
106-18B	DELAYED TDM-C OUT(X)	9	MB-73,154-2
106-19B	DELAYED TDM-C OUT(G)	10	MB-73,154-1

CN145

-12V	REG -12V	1	MB-73,155-10
	REG -12V	2	MB-73,155-9
	REG -12V	3	MB-73,155-8
		4	MB-73,155-7
114-25B,104-7B,106-7A	L:NORMAL/H:BID IN	5	MB-73,155-6
		6	MB-73,155-5
		7	MB-73,155-4
		8	MB-73,155-3
		9	MB-73,155-2
106-10A,B	C CLAMP INHIBIT IN	10	MB-73,155-1

CN146

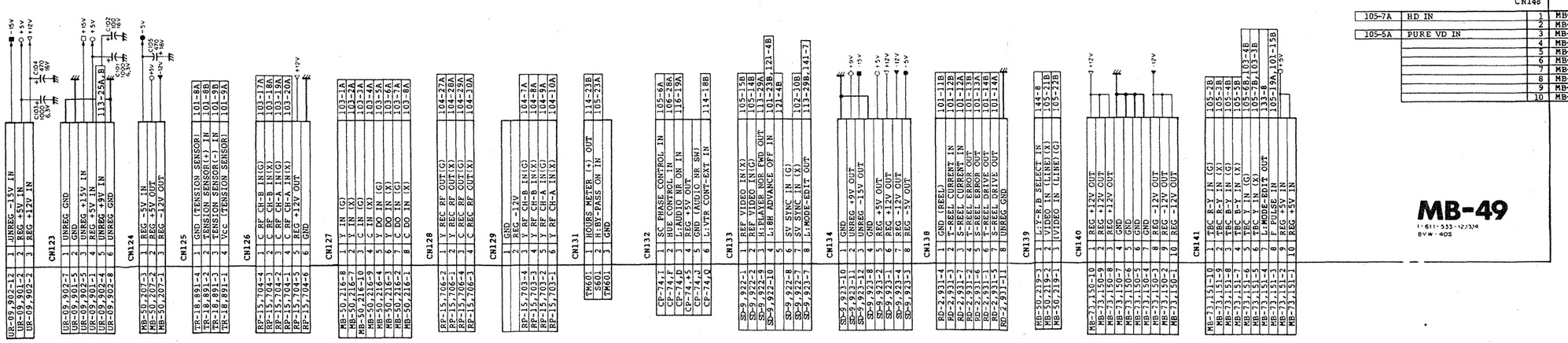
		1	
103-15A,116-11A	C SW'ING PULSE IN(X)	2	
103-8B	RF ENVELOPE OUT (DT)	3	
+12V	REG +12V	4	
		5	
101-19A,113-19A,115-14	1/2 VD OUT	6	
101-1B	SHAPED CTL OUT	7	
101-1A	SHAPED CAP FG(A) OUT	8	
101-2A	SHAPED CAP FG(B) OUT	9	
113-24A	DT UNREADY IN	10	
113-4B	SERIAL DATA-9 OUT	11	
113-3B	SERIAL DATA-3 IN	12	

CN147

	GND	1
	GND	2
	GND	3
	GND	4
		5
114-24A,117-11A	STB CK-1 OUT	6
114-25A,117-12B	SYS CK-1 OUT	7
102-21B	DT SW'ING PULSE OUT	8
102-25B,104-16A	Y SW'ING PULSE OUT	9
104-25B,106-25B,143-5	Y DO DET PULSE OUT(X)	10

CN148

105-7A	HD IN	1	MB-73,157-10
		2	MB-73,157-9
105-5A	PURE VD IN	3	MB-73,157-8
		4	MB-73,157-7
		5	MB-73,157-6
		6	MB-73,157-5
		7	MB-73,157-4
		8	MB-73,157-3
		9	MB-73,157-2
		10	MB-73,157-1



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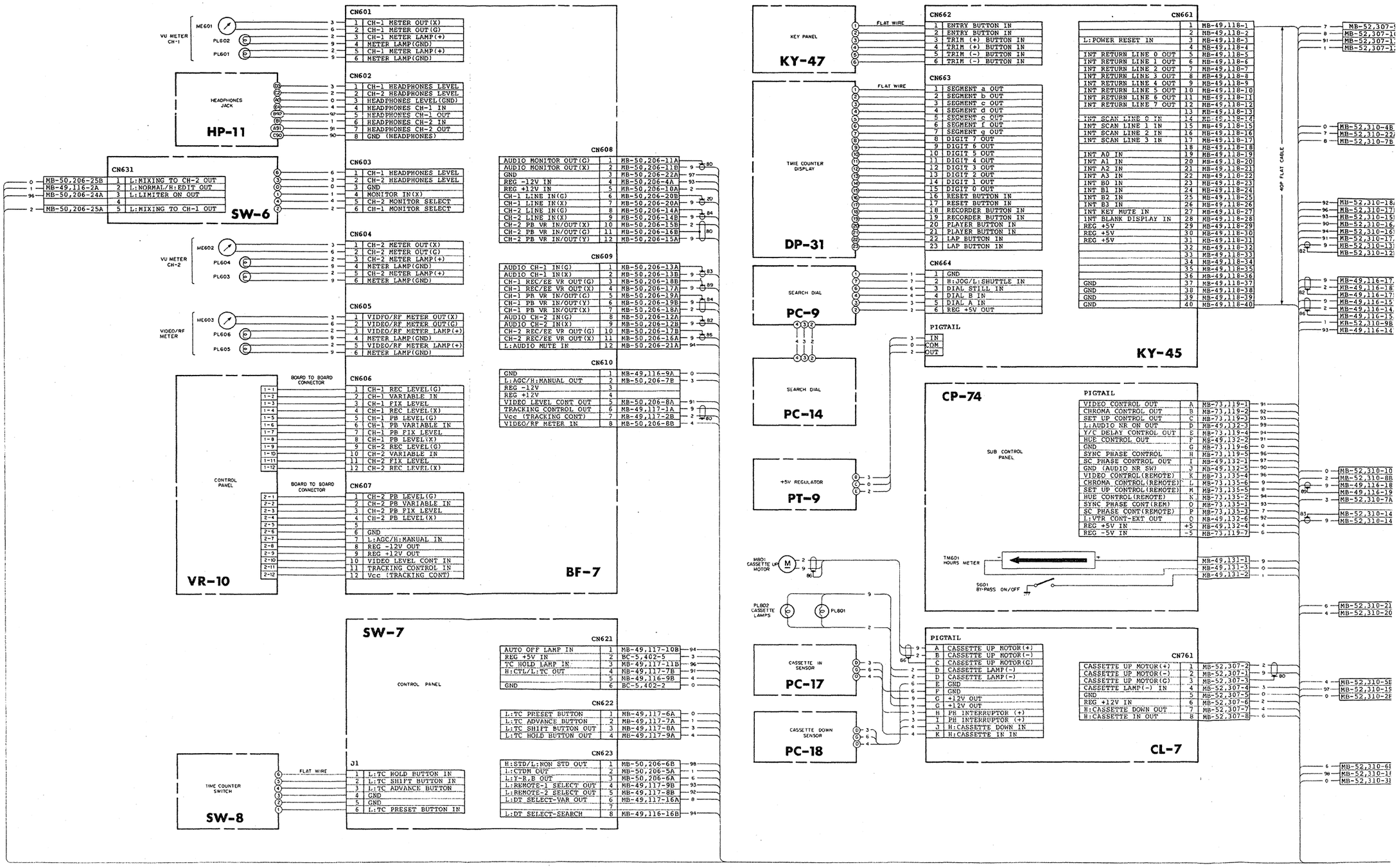

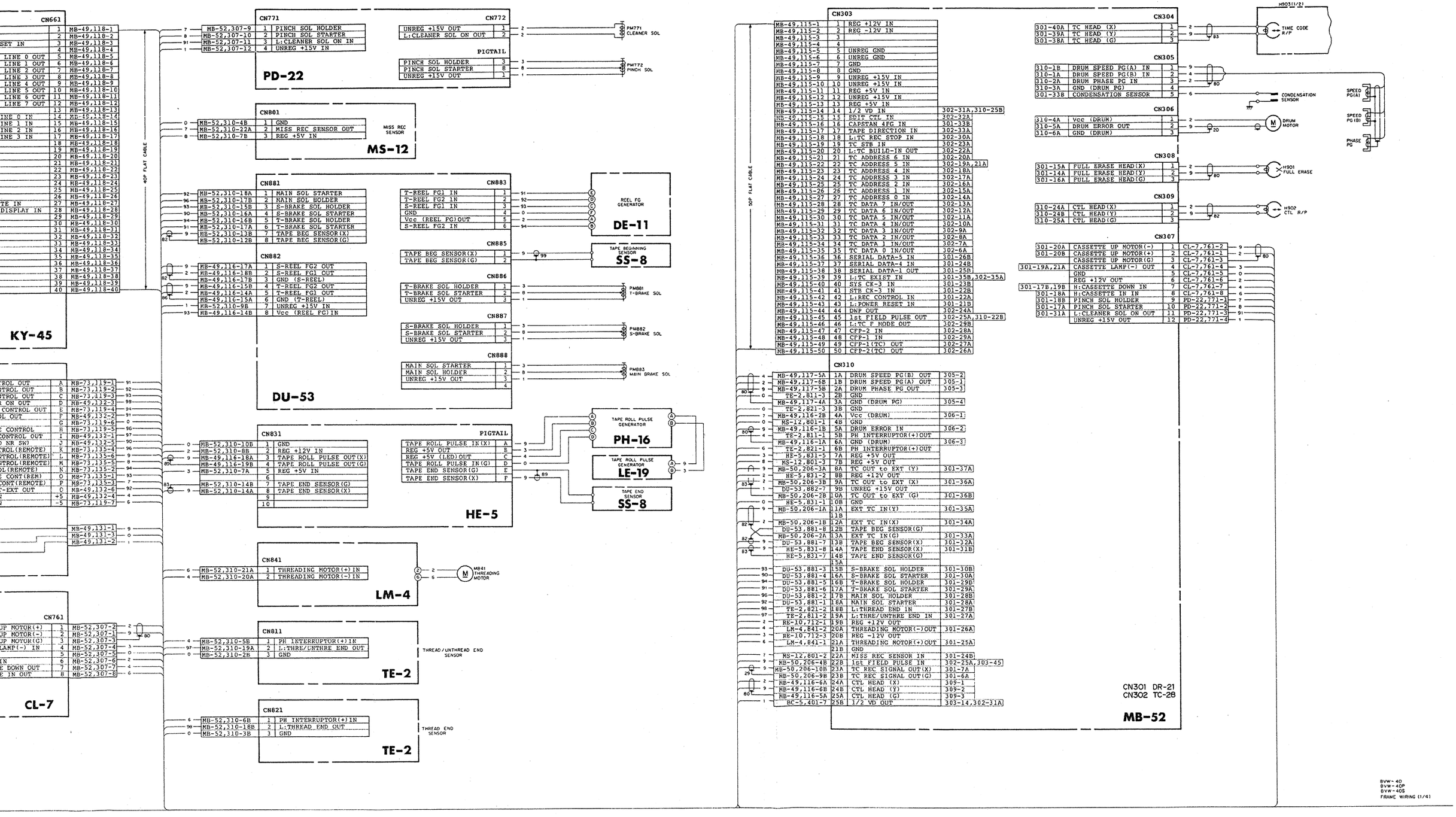
KY-45
CN661
MB-49,118-1
MB-49,118-2
MB-49,118-3
MB-49,118-4
MB-49,118-5
MB-49,118-6
MB-49,118-7
MB-49,118-8
MB-49,118-9
MB-49,118-10
MB-49,118-11
MB-49,118-12
MB-49,118-13
MB-49,118-14
MB-49,118-15
MB-49,118-16
MB-49,118-17
MB-49,118-18
MB-49,118-19
MB-49,118-20
MB-49,118-21
MB-49,118-22
MB-49,118-23
MB-49,118-24
MB-49,118-25
MB-49,118-26
MB-49,118-27
MB-49,118-28
MB-49,118-29
MB-49,118-30
MB-49,118-31
MB-49,118-32
MB-49,118-33
MB-49,118-34
MB-49,118-35
MB-49,118-36
MB-49,118-37
MB-49,118-38
MB-49,118-39
MB-49,118-40
40P FLAT CABLE
CL-7
CN761
MB-52,307-2
MB-52,307-1
MB-52,307-3
MB-52,307-4
MB-52,307-5
MB-52,307-6
MB-52,307-7
MB-52,307-8
MB-73,119-1
MB-73,119-2
MB-73,119-3
MB-49,132-3
MB-73,119-4
MB-49,132-2
MB-73,119-6
MB-73,119-5
MB-49,132-1
MB-49,132-5
MB-73,135-4
MB-73,135-6
MB-73,135-5
MB-73,135-2
MB-73,135-1
MB-73,135-3
MB-49,132-6
MB-49,132-4
MB-73,119-7
MB-49,131-1
MB-49,131-3
MB-49,131-2
PD-22
CN771
PINCH SOL HOLDER
PINCH SOL STARTER
L:CLEANER SOL ON IN
UNREG +15V IN
MB-52,307-9
MB-52,307-10
MB-52,307-11
MB-52,307-12
CN772
UNREG +15V OUT
L:CLEANER SOL ON OUT
PM771 CLEANER SOL
PIGTAIL
PINCH SOL HOLDER
PINCH SOL STARTER
UNREG +15V OUT
PM772 PINCH SOL
MS-12
CN801
GND
MISS REC SENSOR OUT
REG +5V IN
MB-52,310-4B
MB-52,310-22A
MB-52,310-7B
MISS REC SENSOR
DU-53
CN881
MAIN SOL STARTER
MAIN SOL HOLDER
S-BRAKE SOL HOLDER
S-BRAKE SOL STARTER
T-BRAKE SOL HOLDER
T-BRAKE SOL STARTER
TAPE BEG SENSOR(X)
TAPE BEG SENSOR(G)
MB-52,310-18A
MB-52,310-17B
MB-52,310-15B
MB-52,310-16A
MB-52,310-16B
MB-52,310-17A
MB-52,310-13B
MB-52,310-12B
CN882
S-REEL FG2 OUT
S-REEL FG1 OUT
GND (S-REEL)
T-REEL FG2 OUT
T-REEL FG1 OUT
GND (T-REEL)
UNREG +15V IN
Vcc (REEL FG) IN
MB-49,116-17A
MB-49,116-18B
MB-49,116-17B
MB-49,116-15B
MB-49,116-14A
MB-49,116-15A
MB-52,310-9B
MB-49,116-14B
CN883
T-REEL FG1 IN
T-REEL FG2 IN
S-REEL FG1 IN
GND
Vcc (REEL FG) OUT
S-REEL FG2 IN
REEL FG GENERATOR
DE-11
CN885
TAPE BEG SENSOR(X)
TAPE BEG SENSOR(G)
TAPE BEGINNING SENSOR
SS-8
CN886
T-BRAKE SOL HOLDER
T-BRAKE SOL STARTER
UNREG +15V OUT
PM881 T-BRAKE SOL
CN887
S-BRAKE SOL HOLDER
S-BRAKE SOL STARTER
UNREG +15V OUT
PM882 S-BRAKE SOL
CN888
MAIN SOL STARTER
MAIN SOL HOLDER
UNREG +15V OUT
PM883 MAIN BRAKE SOL
HE-5
CN831
GND
REG +12V IN
TAPE ROLL PULSE OUT(X)
TAPE ROLL PULSE OUT(G)
REG +5V IN
TAPE END SENSOR(G)
TAPE END SENSOR(X)
MB-52,310-10B
MB-52,310-8B
MB-49,116-18A
MB-49,116-19B
MB-52,310-7A
MB-52,310-14B
MB-52,310-14A
PIGTAIL
TAPE ROLL PULSE IN(X)
REG +5V OUT
REG +5V (LED) OUT
TAPE ROLL PULSE IN(G)
TAPE END SENSOR(G)
TAPE END SENSOR(X)
TAPE ROLL PULSE GENERATOR
PH-16
TAPE ROLL PULSE GENERATOR
LE-19
TAPE END SENSOR
SS-8
LM-4
CN841
THREADING MOTOR(+) IN
THREADING MOTOR(-) IN
MB-52,310-21A
MB-52,310-20A
M841 THREADING MOTOR
TE-2
CN811
PH INTERRUPTOR(+) IN
L:THRE/UNTHRE END OUT
GND
MB-52,310-5B
MB-52,310-19A
MB-52,310-2B
THREAD/UNTHREAD END SENSOR
CN821
PH INTERRUPTOR(+) IN
L:THREAD END OUT
GND
MB-52,310-6B
MB-52,310-18B
MB-52,310-3B
THREAD END SENSOR
TE-2
CN303
REG +12V IN
REG -12V IN
UNREG GND
UNREG GND
GND
GND
UNREG +15V IN
UNREG +15V IN
REG +5V IN
UNREG +15V IN
REG +5V IN
1/2 VD IN
EDIT CTL IN
CAPSTAN 4FG IN
TAPE DIRECTION IN
L:TC STB IN
TC STB IN
L:TC BUILD-IN OUT
TC ADDRESS 6 IN
TC ADDRESS 5 IN
TC ADDRESS 4 IN
TC ADDRESS 3 IN
TC ADDRESS 2 IN
TC ADDRESS 1 IN
TC ADDRESS 0 IN
TC DATA 7 IN/OUT
TC DATA 6 IN/OUT
TC DATA 5 IN/OUT
TC DATA 4 IN/OUT
TC DATA 3 IN/OUT
TC DATA 2 IN/OUT
TC DATA 1 IN/OUT
TC DATA 0 IN/OUT
SERIAL DATA-5 IN
SERIAL DATA-4 IN
SERIAL DATA-1 OUT
L:TC EXIST IN
SYS CK-3 IN
STB CK-3 IN
L:REC CONTROL IN
L:POWER RESET IN
DWF OUT
1st FIELD PULSE OUT
L:TC P MODE OUT
CFP-2 IN
CFP-1 IN
CFP-1(TC) OUT
CFP-2(TC) OUT
302-31A,310-25B
302-32A
302-33B
302-33A
302-30A
302-23A
302-22A
302-20A
302-19A,21A
302-18A
302-17A
302-16A
302-15A
302-14A
302-13A
302-12A
302-11A
302-10A
302-9A
302-8A
302-7A
302-6A
301-26B
301-24B
301-25D
301-35B,302-35A
301-23B
301-22B
301-22A
301-21B
302-24A
302-25A,310-22B
302-29B
302-28A
302-29A
302-27A
302-26A
CN310
DRUM SPEED PG(B) OUT
DRUM SPEED PG(A) OUT
DRUM PHASE PG OUT
GND
GND (DRUM PG)
GND
Vcc (DRUM)
GND
DRUM ERROR IN
PH INTERRUPTOR(+) OUT
REG +5V OUT
REG +5V OUT
TC OUT to EXT (Y)
REG +12V OUT
TC OUT to EXT (X)
UNREG +15V OUT
TC OUT to EXT (G)
GND
EXT TC IN(Y)
EXT TC IN(X)
TAPE BEG SENSOR(G)
EXT TC IN(G)
TAPE BEG SENSOR(X)
TAPE END SENSOR(X)
TAPE END SENSOR(G)
S-BRAKE SOL HOLDER
S-BRAKE SOL STARTER
T-BRAKE SOL HOLDER
T-BRAKE SOL STARTER
MAIN SOL HOLDER
MAIN SOL STARTER
L:THREAD END IN
L:THRE/UNTHRE END IN
REG +12V OUT
THREADING MOTOR(-) OUT
REG -12V OUT
THREADING MOTOR(+) OUT
GND
MISS REC SENSOR IN
1st FIELD PULSE IN
TC REC SIGNAL OUT(X)
TC REC SIGNAL OUT(G)
CTL HEAD (X)
CTL HEAD (Y)
CTL HEAD (G)
1/2 VD OUT
MB-49,117-5A
MB-49,117-6B
MB-49,117-5B
TE-2,811-3
MB-49,117-4A
TE-2,821-3
MB-49,116-2B
MS-12,801-1
MB-49,116-1B
TE-2,811-1
MB-49,116-1A
TE-2,821-1
HE-5,831-5
MS-12,801-3
MB-50,206-3A
HE-5,831-2
MB-50,206-3B
DU-53,882-7
MB-50,206-2B
HE-5,831-1
MB-50,206-1A
MB-50,206-1B
DU-53,881-8
MB-50,206-2A
DU-53,881-7
HE-5,831-8
HE-5,831-7
DU-53,881-3
DU-53,881-4
DU-53,881-5
DU-53,881-6
DU-53,881-2
DU-53,881-1
TE-2,821-2
TE-2,811-2
RE-10,712-1
LM-4,841-2
RE-10,712-3
LM-4,841-1
MS-12,801-2
MB-50,206-4B
MB-50,206-10B
MB-50,206-9B
MB-49,116-6A
MB-49,116-6B
MB-49,116-5A
BC-5,401-7
1A
1B
2A
2B
3A
3B
4A
4B
5A
5B
6A
6B
7A
7B
8A
8B
9A
9B
10A
10B
11A
11B
12A
12B
13A
13B
14A
14B
15A
15B
16A
16B
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17B
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18B
19A
19B
20A
20B
21A
21B
22A
22B
23A
23B
24A
24B
25A
25B
305-2
305-1
305-3
305-4
306-1
306-2
306-3
301-37A
301-36A
301-36B
301-35A
301-34A
301-33A
301-32A
301-31B
301-30B
301-30A
301-29D
301-29A
301-28B
301-28A
301-27B
301-27A
301-26A
301-25A
301-24B
302-25A,303-45
301-7A
301-6A
309-1
309-2
309-3
303-14,302-31A
CN301 DR-21
CN302 TC-28
MB-52
CN304
TC HEAD (X)
TC HEAD (Y)
TC HEAD (G)
301-40A
301-39A
301-38A
TIME CODE R/P
CN305
DRUM SPEED PG(A) IN
DRUM SPEED PG(B) IN
DRUM PHASE PG IN
GND (DRUM PG)
CONDENSATION SENSOR
310-1B
310-1A
310-2A
310-3A
301-33B
CONDENSATION SENSOR
SPEED PG(A)
SPEED PG(B)
PHASE PG
CN306
Vcc (DRUM)
DRUM ERROR OUT
GND (DRUM)
310-4A
310-5A
310-6A
DRUM MOTOR
CN308
FULL ERASE HEAD(X)
FULL ERASE HEAD(Y)
FULL ERASE HEAD(G)
301-15A
301-14A
301-16A
H901 FULL ERASE
CN309
CTL HEAD(X)
CTL HEAD(Y)
CTL HEAD(G)
310-24A
310-24B
310-25A
H902 CTL R/P
CN307
CASSETTE UP MOTOR(-)
CASSETTE UP MOTOR(+)
CASSETTE UP MOTOR(G)
CASSETTE LAMP(-) OUT
GND
REG +12V OUT
H:CASSETTE DOWN IN
H:CASSETTE IN IN
PINCH SOL HOLDER
PINCH SOL STARTER
L:CLEANER SOL ON OUT
UNREG +15V OUT
301-20A
301-20B
301-19A,21A
301-17B,19B
301-18A
301-18B
301-17A
301-31A
CL-7,761-2
CL-7,761-1
CL-7,761-3
CL-7,761-4
CL-7,761-5
CL-7,761-6
CL-7,761-7
CL-7,761-8
PD-22,771-1
PD-22,771-2
PD-22,771-3
PD-22,771-4
BVW-40
BVW-40P
BVW-40S
FRAME WIRING (1/4)

FRAME WIRING (2/4)

FRAME (2/4) FRAME (2/4)

H903 (2/2)

AUDIO CH-1 R/P

AUDIO CH-2 R/P

AUDIO CH-1 ERASE

AUDIO CH-2 ERASE

TIME CODE ERASE

CN214

1	AUDIO CH-1 HEAD(X)	205-37A
2	AUDIO CH-1 HEAD(Y)	205-36A
3	AUDIO CH-1 HEAD(G)	205-35A
4	AUDIO CH-2 HEAD(X)	205-34A
5	AUDIO CH-2 HEAD(Y)	205-33A
6	AUDIO CH-2 HEAD(G)	205-32A

CN215

1	CH-1 ERASE HEAD(G)	205-17A
2	CH-1 ERASE HEAD(Y)	205-16A
3	CH-1 ERASE HEAD(X)	205-15A
4	CH-2 ERASE HEAD(G)	205-13A
5	CH-2 ERASE HEAD(Y)	205-12A
6	CH-2 ERASE HEAD(X)	205-11A
7	TC ERASE HEAD(G)	205-9A
8	TC ERASE HEAD(Y)	205-8A
9	TC ERASE HEAD(X)	205-7A
10		

CN206

1A	EXT TC IN(Y)	208-2
1B	EXT TC IN(X)	208-1
2A	EXT TC IN(G)	208-3
2B	TC OUT to EXT(G)	208-6
3A	TC OUT to EXT(Y)	208-5
3B	TC OUT to EXT(X)	208-4
4A	REG -12V OUT	
4B	1st FIELD PULSE OUT	202-32B
5A	L:CTDM IN	201-13B,206-5B,217-3
5B	L:CTDM OUT	201-13B,206-5A,217-3
6A	L:Y-R/B IN	201-23B,210-10B,219-3
6B	H:STD/L:NON STD IN	202-26B,210-10A,11A
7A	RF METER IN	203-34B
7B	L:AGC/H:MANUAL IN	203-35B
8A	VIDEO CONTROL IN	203-36B
8B	VIDEO/RF METER OUT	203-37B
9A		
9B	TC REC SIGNAL(G)	205-15B
10A	REG +12V OUT	
10B	TC REC SIGNAL(X)	205-16B
11A	AUDIO MONITOR IN(G)	210-6B
11B	AUDIO MONITOR IN(X)	210-7B
12A	AUDIO CH-2 OUT(G)	210-5B
12B	AUDIO CH-2 OUT(X)	210-5A
13A	AUDIO CH-1 OUT(G)	210-4B
13B	AUDIO CH-1 OUT(X)	210-4A
14A	CH-2 LINE OUT(G)	204-8A,210-2A
14B	CH-2 LINE OUT(X)	204-7A,210-2B
15A	CH-2 PB VR IN/OUT(Y)	204-11A
15B	CH-2 PB VR IN/OUT(X)	204-10A
16A	CH-2 REC/EE VR IN(X)	204-14A
16B	CH-2 PB VR IN/OUT(G)	204-12A
17A	CH-1 REC/EE VR IN(X)	204-30A
17B	CH-2 REC/EE VR IN(G)	204-15A
18A	CH-1 PB VR IN/OUT(X)	204-33A
18B	CH-1 REC/EE VR IN(G)	204-31A
19A	CH-1 PB VR IN/OUT(G)	204-35A
19B	CH-1 PB VR IN/OUT(Y)	204-34A
20A	CH-1 LINE OUT(X)	204-37A,210-3B
20B	CH-1 LINE OUT(G)	204-38A,210-3A
21A	L:AUDIO MUTE IN	204-39B,205-39B,213-6,
21B	L:AUDIO NR ON IN	204-16A, 206-23B
22A	GND	
22B	GND	
23A	L:BIAS OSC ON IN	205-6B
23B	L:AUDIO MUTE IN	206-21A,204-39B,205-39B,
24A	L:LIMITER ON IN	213-8, 213-6
24B	L:VIDEO EE OUT	213-7,203-33B
25A	L:MIXING TO CH-1 IN	213-10
25B	L:MIXING TO CH-2 IN	213-9

CN207

MB-49,124-3	1	REG -12V IN
MB-49,124-2	2	REG +5V IN
MB-49,124-1	3	REG -5V OUT

CN208

CN PANEL,566-2	1	EXT TC IN (X)	206-1B
CN PANEL,566-3	2	EXT TC IN (Y)	206-1A
CN PANEL,566-1	3	EXT TC IN (G)	206-2A
CN PANEL,567-2	4	TC OUT to EXT(X)	206-3B
CN PANEL,567-3	5	TC OUT to EXT(Y)	206-3A
CN PANEL,567-1	6	TC OUT to EXT(G)	206-2B

CN209

UR-09,902-1	1	REG +12V IN
UR-09,902-6	2	GND
UR-09,902-8	3	REG -5V IN

CN201 CC-15
CN202 DEC-14
CN203 DEC-13
CN204 AU-45
CN205 AU-46

MB-50

CN210

	GND	1A	CP-61,522-7
	GND	1B	CP-61,528-4
204-8A,206-14A	CH-2 LINE OUT(G)	2A	CP-61,526-1
204-7A,206-14B	CH-2 LINE OUT(X)	2B	CP-61,526-3
204-38A,206-20B	CH-1 LINE OUT(G)	3A	CP-61,527-1
204-37B,206-20A	CH-1 LINE OUT(X)	3B	CP-61,527-3
206-13B	AUDIO CH-1 OUT(X)	4A	CP-61,522-4
206-13A	AUDIO CH-1 OUT(G)	4B	CP-61,522-5
206-12B	AUDIO CH-2 OUT(X)	5A	CP-61,522-3
206-12A	AUDIO CH-2 OUT(G)	5B	CP-61,522-2
	REG -12V OUT	6A	CP-61,522-6
206-11A	AUDIO MONITOR OUT(G)	6B	CP-61,525-1
	GND	7A	
206-11B	AUDIO MONITOR OUT(X)	7B	CP-61,525-3
	REG +12V OUT	8A	
	REG +12V OUT	8B	CP-61,522-1
203-9A,219-1	VIDEO IN (LINE)(G)	9A	CP-62,541-5
203-8A,219-2	VIDEO IN (LINE)(X)	9B	CP-62,541-4
206-6B,202-26B	H:STD/L:NON STD OUT	10A	
201-23B,206-6A	L:Y-R,B	10B	
206-6B,202-26B	H:STD/L:NON STD OUT	11A	
		11B	
201-26B	DUB Y IN(X)	12A	CN PANEL,557-1
201-27B	DUB Y IN(G)	12B	CN PANEL,557-2
201-10B	DUB R-Y/B-Y IN(X)	13A	CN PANEL,557-7
201-11B	DUB R-Y/B-Y IN(G)	13B	CN PANEL,557-8
201-11A	DUB B-Y/C DO IN(G)	14A	CN PANEL,557-5
201-10A	DUB B-Y/C DO IN(G)	14B	CN PANEL,557-6
201-14A	DUB R-Y/Y DO IN(X)	15A	CN PANEL,557-3
201-13A	DUB R-Y/Y DO IN(G)	15B	CN PANEL,557-4

CN211

	GND	1	BC-6,454-1
	GND	2	BC-6,454-2
	REG +5V OUT	3	BC-6,454-3
	REG +5V OUT	4	BC-6,454-4
		5	BC-6,454-5
204-9B	L:CH-2 LIMITER ON IN	6	BC-6,454-6
203-13B	L:MIX TO CH-2 REC/EE	7	BC-6,454-7
204-17A	L:CH-2 REC/EE IN	8	BC-6,454-8
204-32B	L:CH-1 REC/EE IN	9	BC-6,454-9
204-35B	L:CH-1 LIMITER ON IN	10	BC-6,454-10

CN212

204-36B	L:MIX TO CH-1 REC/EE	1	BC-6,453-1
205-5B	FAST IN	2	BC-6,453-2
204-20A,205-7E	L:CH-2 BIAS ON IN	3	BC-6,453-3
204-26A,205-8E	L:CH-1 BIAS ON IN	4	BC-6,453-4
205-9B	L:CH-2 ERASE ON IN	5	BC-6,453-5
205-10B	L:CH-1 ERASE ON IN	6	BC-6,453-6
205-13B	CH-2 RELAY ON	7	BC-6,453-7
205-14B	CH-1 RELAY ON	8	BC-6,453-8
205-17B	L:TC ERASE ON IN	9	BC-6,453-9
205-18B	TC RELAY ON	10	BC-6,453-10

CN213

204-16B,205-18A	L:TC REC IN	1	BC-6,452-1
205-22B	L:AUDIO CH-2 REC IN	2	BC-6,452-2
204-23A,205-25B	L:CH-2 PB CONTROL IN	3	BC-6,452-3
205-28B	L:AUDIO CH-1 REC IN	4	BC-6,452-4
204-29B,205-27B	L:CH-1 PB CONTROL IN	5	BC-6,452-5
206-21A,23B,204-39B,205-39B	L:AUDIO MUTE IN	6	BC-6,452-6
203-33B,206-24B	L:VIDFO EE IN	7	BC-6,452-7
206-27A	L:LIMITER ON OUT	8	BC-6,452-8
206-25B	L:MIXING TO CH-2 OUT	9	BC-6,452-9
206-25A	L:MIXING TO CH-1 OUT	10	BC-6,452-10

CN216

201-35A	C DO OUT(X)	1	MB-49,127-8
201-34A	C DO OUT(G)	2	MB-49,127-7
201-32A	Y DO OUT(X)	3	MB-49,127-6
201-31A	Y DO OUT(G)	4	MB-49,127-5
		5	
		6	
201-28A	Y OUT(X)	7	MB-49,127-2
201-27A	Y OUT(G)	8	MB-49,127-1
201-25A	R-Y/B-Y OUT(X)	9	MB-49,127-4
201-24A	R-Y/B-Y OUT(G)	10	MB-49,127-3

CN217

201-18B	C-C SYNC OUT(X)	1	SD-9,922-5
201-17B	C-C SYNC OUT(G)	2	SD-9,922-6
206-5A,B,201-13B	L:CTDM OUT	3	SD-9,922-9

CN218

	REG +12V OUT	1
	GND	2
	REG -12V OUT	3

CN219

210-9A,203-9A	VIDEO IN(LINE) OUT(G)	1	MB-49,139-3
210-8A,203-9B	VIDEO IN(LINE) OUT(G)	2	MB-49,139-2
206-6A,201-23B,210-10B	L:Y-R,B OUT	3	MB-49,139-1

CN401

SHAPED SPEED PG(A) IN	1	MB-49,116-8A
SHAPED SPEED PG(B) IN	2	MB-49,116-8B
SHAPED PHASE PG IN	3	MB-49,116-7A
GND (PG)	4	MB-49,116-7B
	5	
	6	
1/2 VD IN	7	MB-52,310-25B
1/2 VD OUT	8	BC-6,451-7
VIDEO REC IN	9	BC-6,451-11
VIDEO ERASE IN	10	BC-6,451-10
REC ENABLE IN	11	BC-6,451-9
	12	

CN402

GND	1	MB-49,116-10A
GND	2	SW-7,621-6
	3	
REG +5V IN	4	MB-49,116-11B
REG +5V OUT	5	SW-7,621-2
	6	
	7	
	8	
C SW'ING PULSE OUT(X)	9	MB-49,116-11A
C SW'ING PULSE OUT(G)	10	MB-49,116-12B

CN403

L:Y CH-A REC ENABLE	1	RP-15,705-2
L:Y CH-B REC ENABLE	2	RP-15,705-3
L:C CH-A REC ENABLE	3	RP-15,705-4
L:C CH-B REC ENABLE	4	RP-15,705-5
L:CH-A RE ENABLE OUT	5	RE-10,712-4
L:CH-B RE ENABLE OUT	6	RE-10,712-5
L:REC AMP ENABLE OUT	7	RP-15,705-1
	8	

BC-5

CN451

STB CK-) IN	1	MB-49,117-11A
SYS CK-) IN	2	MB-49,117-12B
SERIAL DATA-6 IN	3	MB-49,117-13B
SERIAL DATA-7 IN	4	MB-49,117-13A
SERIAL DATA-8 IN	5	MB-49,117-14B
	6	
1/2 VD IN	7	BC-5,401-8
L:REC CONT IN	8	MB-49,117-15A
REC ENABLE OUT	9	BC-5,401-11
VIDEO ERASE OUT	10	BC-5,401-10
VIDEO REC OUT	11	BC-5,401-9
	12	

CN452

L:TC REC OUT	1	MB-50,213-1
L:AUDIO CH-2 REC OUT	2	MB-50,213-2
L:CH-2 PB CONTROL OUT	3	MB-50,213-3
L:AUDIO CH-1 REC OUT	4	MB-50,213-4
L:CH-1 PB CONTROL OUT	5	MB-50,213-5
L:AUDIO MUTE IN	6	MB-50,213-6
L:VIDFO EE OUT	7	MB-50,213-7
L:LIMITER ON IN	8	MB-50,213-8
L:MIXING TO CH-2 IN	9	MB-50,213-9
L:MIXING TO CH-1 IN	10	MB-50,213-10

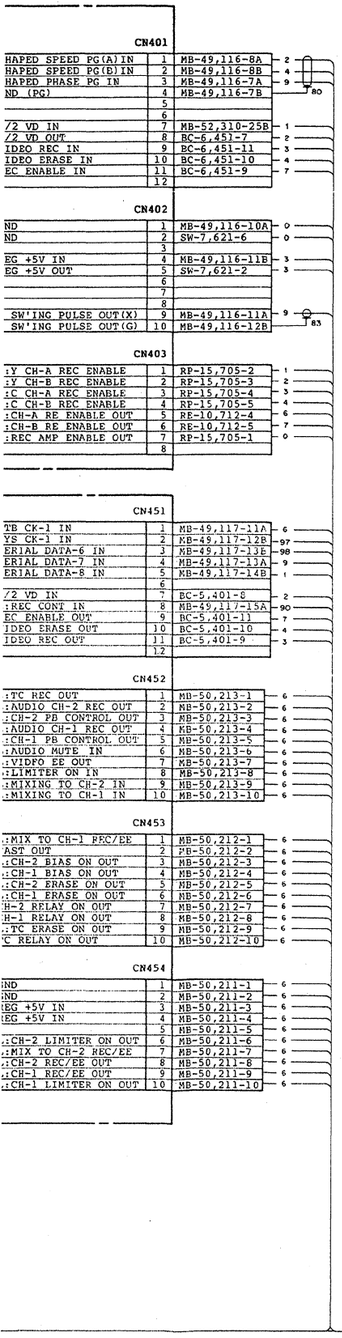
CN453

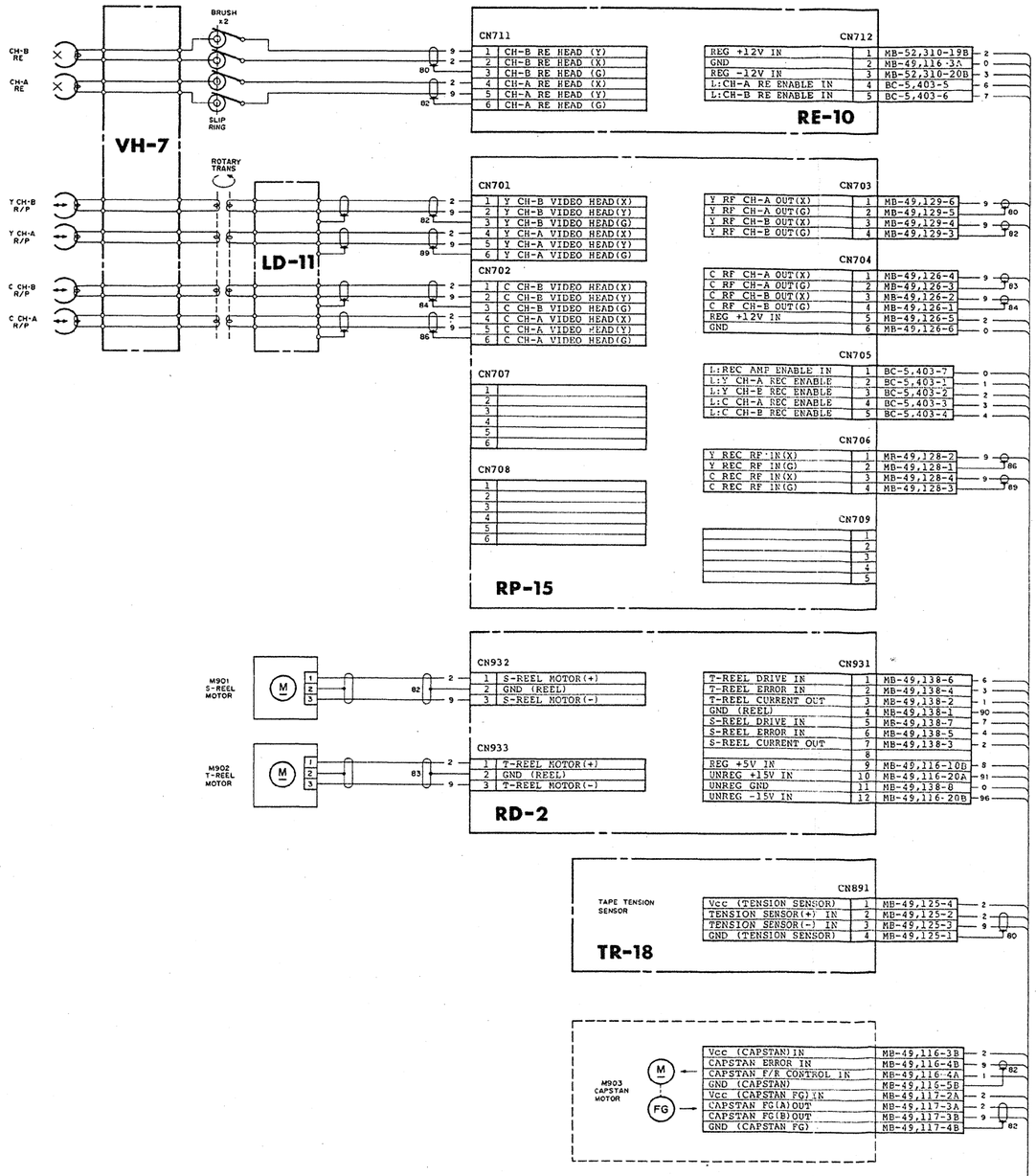
L:MIX TO CH-1 REC/EE	1	MB-50,212-1
FAST OUT	2	MB-50,212-2
L:CH-2 BIAS ON OUT	3	MB-50,212-3
L:CH-1 BIAS ON OUT	4	MB-50,212-4
L:CH-2 ERASE ON OUT	5	MB-50,212-5
L:CH-1 ERASE ON OUT	6	MB-50,212-6
CH-2 RELAY ON OUT	7	MB-50,212-7
CH-1 RELAY ON OUT	8	MB-50,212-8
L:TC ERASE ON OUT	9	MB-50,212-9
TC RELAY ON OUT	10	MB-50,212-10

CN454

GND	1	MB-50,211-1
GND	2	MB-50,211-2
REG +5V IN	3	MB-50,211-3
REG +5V IN	4	MB-50,211-4
	5	MB-50,211-5
L:CH-2 LIMITER ON OUT	6	MB-50,211-6
L:MIX TO CH-2 REC/EE	7	MB-50,211-7
L:CH-2 REC/EE OUT	8	MB-50,211-8
L:CH-1 REC/EE OUT	9	MB-50,211-9
L:CH-1 LIMITER ON OUT	10	MB-50,211-10

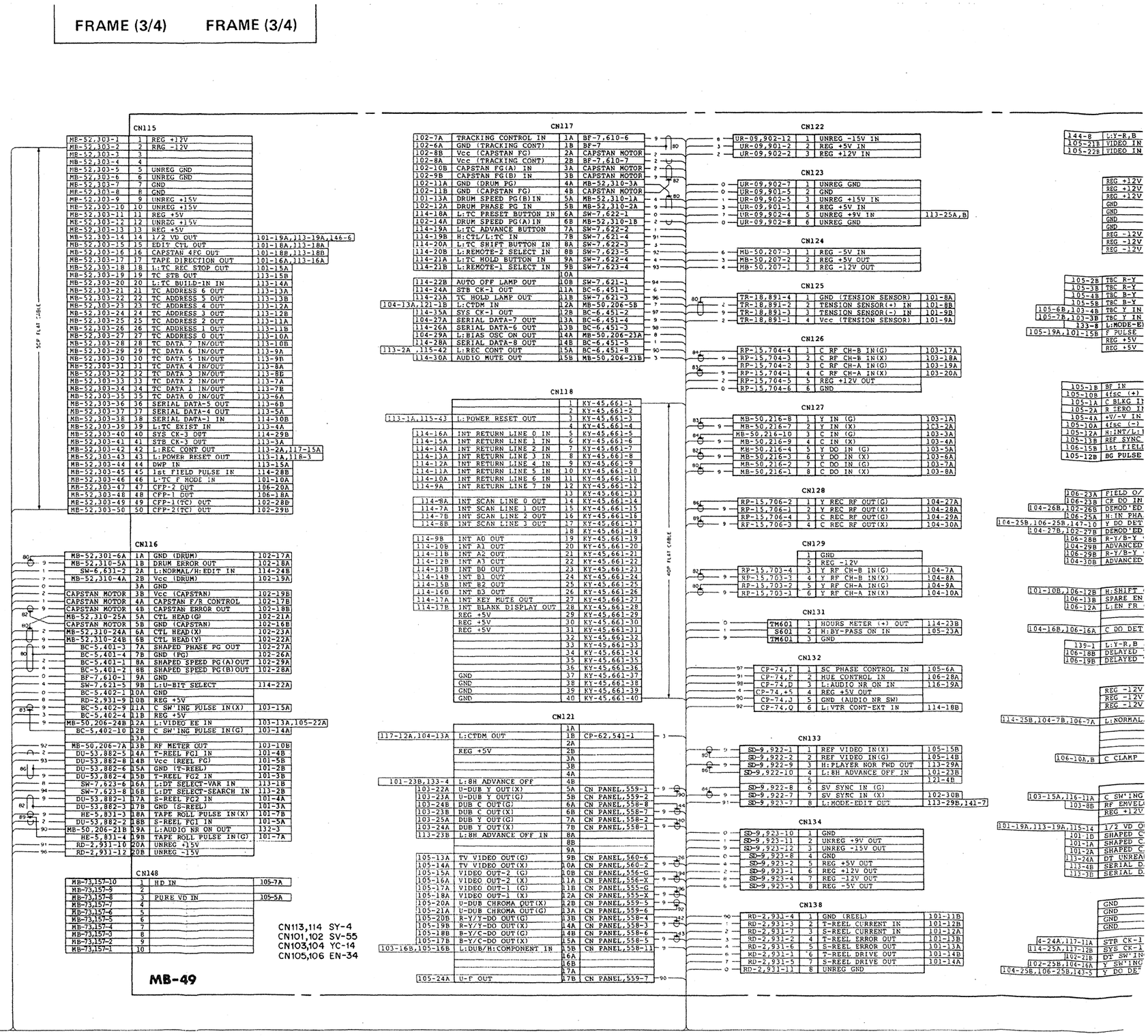
BC-6



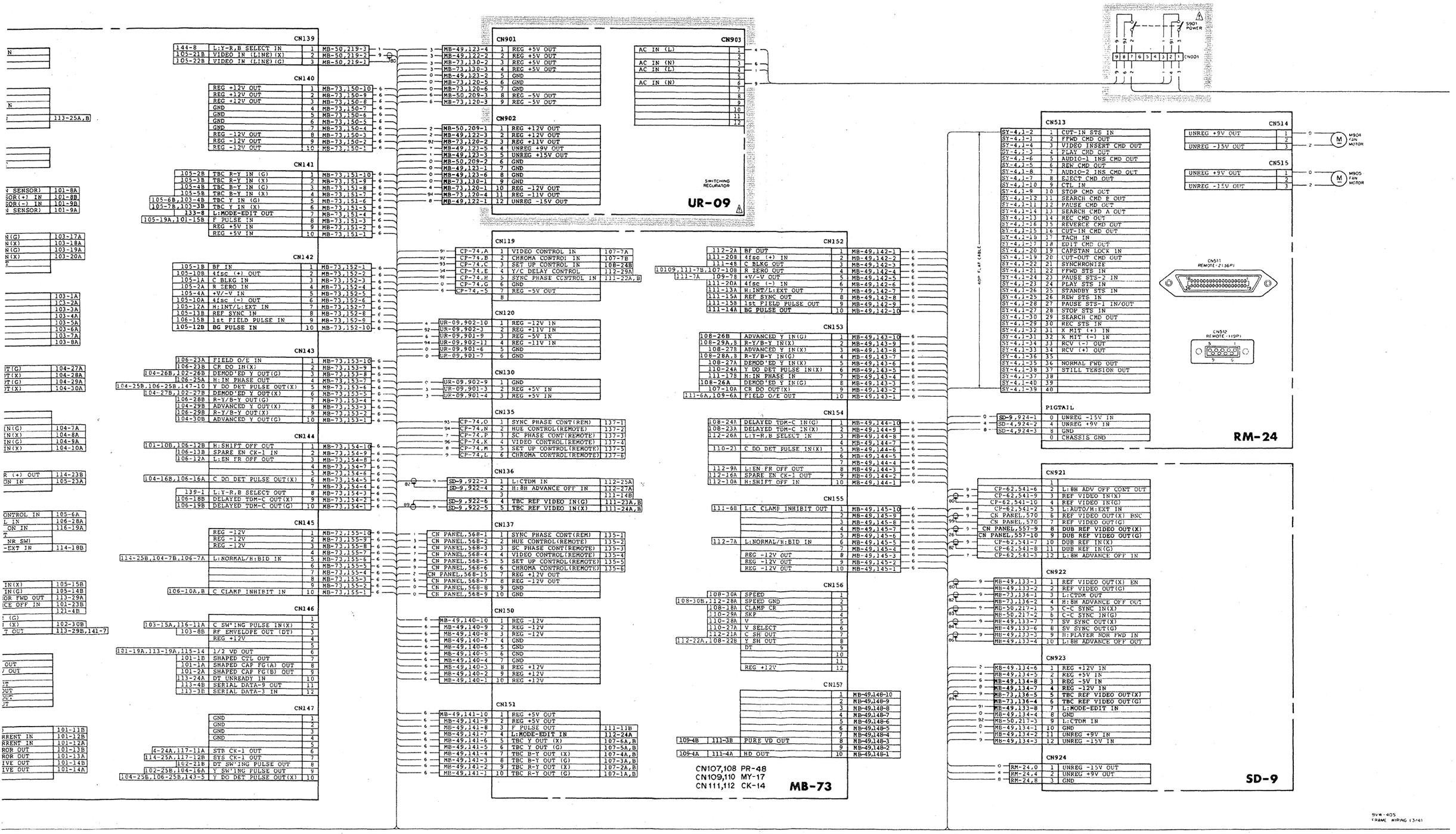


BVW-40S
FRAME WIRING (2/4)

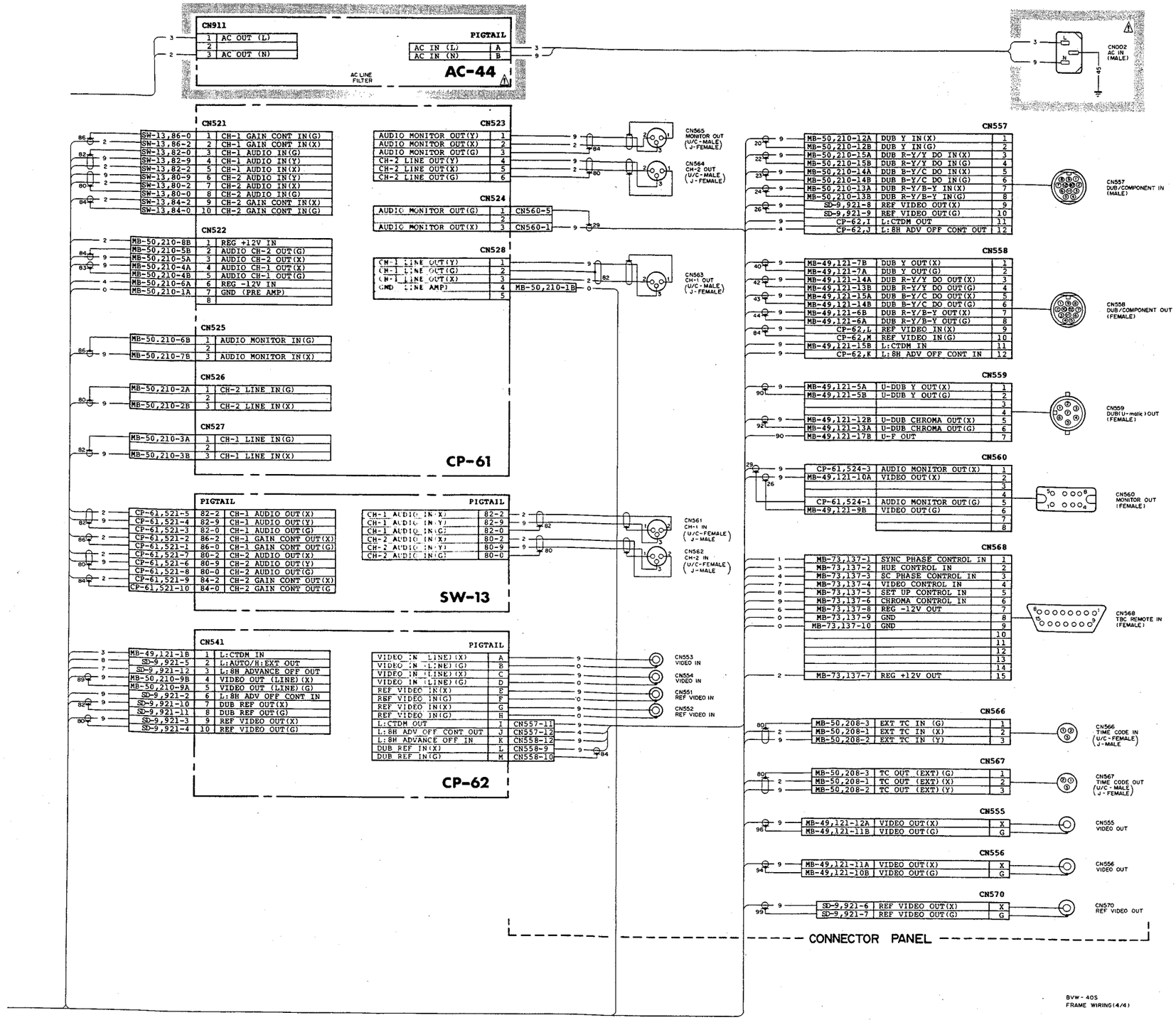
FRAME WIRING (3/4)



NOTE: The shaded and ⚠-marked components are critical to safety.
Replace only with same components as specified.


CN139
144-8 L:Y-R,B SELECT IN 1 MB-50,219-3
105-21B VIDEO IN (LINE)(X) 2 MB-50,219-2
105-22B VIDEO IN (LINE)(G) 3 MB-50,219-1
CN140
REG +12V OUT 1 MB-73,150-10
REG +12V OUT 2 MB-73,150-9
REG +12V OUT 3 MB-73,150-8
GND 4 MB-73,150-7
GND 5 MB-73,150-6
GND 6 MB-73,150-5
GND 7 MB-73,150-4
REG -12V OUT 8 MB-73,150-3
REG -12V OUT 9 MB-73,150-2
REG -12V OUT 10 MB-73,150-1
CN141
105-2B TBC R-Y IN (G) 1 MB-73,151-10
105-3B TBC R-Y IN (X) 2 MB-73,151-9
105-4B TBC B-Y IN (G) 3 MB-73,151-8
105-5B TBC B-Y IN (X) 4 MB-73,151-7
105-6B,103-4B TBC Y IN (G) 5 MB-73,151-6
105-7B,103-3B TBC Y IN (X) 6 MB-73,151-5
133-8 L:MODE-EDIT OUT 7 MB-73,151-4
105-19A,101-15B F PULSE IN 8 MB-73,151-3
REG +5V IN 9 MB-73,151-2
REG +5V IN 10 MB-73,151-1
CN142
105-1B BF IN 1 MB-73,152-1
105-1B 4fsc (+) OUT 2 MB-73,152-2
105-1A C BLKG IN 3 MB-73,152-3
105-2A R ZERO IN 4 MB-73,152-4
105-4A +V/-V IN 5 MB-73,152-5
105-10A 4fsc (-) OUT 6 MB-73,152-6
105-12A H:INT/L:EXT IN 7 MB-73,152-7
105-13B REF SYNC IN 8 MB-73,152-8
106-15B 1st FIELD PULSE IN 9 MB-73,152-9
105-12B BG PULSE IN 10 MB-73,152-10
CN143
106-23A FIELD O/E IN 1 MB-73,153-10
106-23B CR DO IN(X) 2 MB-73,153-9
104-26B,102-26B DEMOD'ED Y OUT(G) 3 MB-73,153-8
106-25A H:IN PHASE OUT 4 MB-73,153-7
104-25B,106-25B,147-10 Y DO DET PULSE OUT(X) 5 MB-73,153-6
104-27B,102-27B DEMOD'ED Y OUT(X) 6 MB-73,153-5
106-28B R-Y/B-Y OUT(G) 7 MB-73,153-4
104-29B ADVANCED Y OUT(X) 8 MB-73,153-3
106-29B R-Y/B-Y OUT(X) 9 MB-73,153-2
104-30B ADVANCED Y OUT(G) 10 MB-73,153-1
CN144
101-10B,106-12B H:SHIFT OFF OUT 1 MB-73,154-10
106-13B SPARE EN CK-1 IN 2 MB-73,154-9
106-12A L:EN FR OFF OUT 3 MB-73,154-8
4 MB-73,154-7
5 MB-73,154-6
104-16B,106-16A C DO DET PULSE OUT(X) 6 MB-73,154-5
7 MB-73,154-4
139-1 L:Y-R,B SELECT OUT 8 MB-73,154-3
106-18B DELAYED TDM-C OUT(X) 9 MB-73,154-2
106-19B DELAYED TDM-C OUT(G) 10 MB-73,154-1
CN145
REG -12V 1 MB-73,155-10
REG -12V 2 MB-73,155-9
REG -12V 3 MB-73,155-8
4 MB-73,155-7
114-25B,104-7B,106-7A L:NORMAL/H:BID IN 5 MB-73,155-6
6 MB-73,155-5
7 MB-73,155-4
8 MB-73,155-3
9 MB-73,155-2
106-10A,B C CLAMP INHIBIT IN 10 MB-73,155-1
CN146
1
103-15A,116-11A C SW'ING PULSE IN(X) 2
103-8B RF ENVELOPE OUT (DT) 3
REG +12V 4
5
101-19A,113-19A,115-14 1/2 VD OUT 6
101-1B SHAPED CTL OUT 7
101-1A SHAPED CAP FG(A) OUT 8
101-2A SHAPED CAP FG(B) OUT 9
113-24A DT UNREADY IN 10
113-4B SERIAL DATA-9 OUT 11
113-3B SERIAL DATA-3 IN 12
CN147
GND 1
GND 2
GND 3
GND 4
5
4-24A,117-11A STR CK-1 OUT 6
114-25A,117-12B SYS CK-1 OUT 7
102-21B DT SW'ING PULSE OUT 8
102-25B,104-16A Y SW'ING PULSE OUT 9
104-25B,106-25B,143-5 Y DO DET PULSE OUT(X) 10
CN901
MB-49,123-4 1 REG +5V OUT
MB-49,122-2 2 REG +5V OUT
MB-73,130-2 3 REG +5V OUT
MB-73,130-3 4 REG +5V OUT
MB-49,123-2 5 GND
MB-73,120-5 6 GND
MB-73,120-6 7 GND
MB-50,209-3 8 REG -5V OUT
MB-73,120-3 9 REG -5V OUT
CN902
MB-50,209-1 1 REG +12V OUT
MB-49,122-3 2 REG +12V OUT
MB-73,120-2 3 REG +11V OUT
MB-49,123-5 4 UNREG +9V OUT
MB-49,123-3 5 UNREG +15V OUT
MB-50,209-2 6 GND
MB-49,123-1 7 GND
MB-49,123-6 8 GND
MB-73,130-1 9 GND
MB-73,120-1 10 REG -12V OUT
MB-73,120-4 11 REG -11V OUT
MB-49,122-1 12 UNREG -15V OUT
SWITCHING REGULATOR
UR-09
CN903
AC IN (L) 1
2
AC IN (N) 3
AC IN (L) 4
5
AC IN (N) 6
7
8
9
10
11
12
CN119
CP-74,A 1 VIDEO CONTROL IN 107-7A
CP-74,B 2 CHROMA CONTROL IN 107-7B
CP-74,C 3 SET UP CONTROL IN 108-24B
CP-74,E 4 Y/C DELAY CONTROL 112-29A
CP-74,H 5 SYNC PHASE CONTROL IN 111-22A,B
CP-74,G 6 GND
CP-74,-5 7 REG -5V OUT
8
CN120
UR-09,902-10 1 REG -12V IN
UR-09,902-3 2 REG +11V IN
UR-09,901-9 3 REG -5V IN
UR-09,902-11 4 REG -11V IN
UR-09,901-6 5 GND
UR-09,901-7 6 GND
CN130
UR-09,902-9 1 GND
UR-09,901-3 2 REG +5V IN
UR-09,901-4 3 REG +5V IN
CN135
CP-74,O 1 SYNC PHASE CONT(REM) 137-1
CP-74,N 2 HUE CONTROL(REMOTE) 137-2
CP-74,P 3 SC PHASE CONT(REMOTE) 137-3
CP-74,K 4 VIDEO CONTROL(REMOTE) 137-4
CP-74,M 5 SET UP CONTROL(REMOTE) 137-5
CP-74,L 6 CHROMA CONTROL(REMOTE) 137-6
CN136
SD-9,922-3 1 L:CTDM IN 112-25A
SD-9,922-4 2 H:8H ADVANCE OFF IN 112-27A
3 111-14B
SD-9,922-6 4 TBC REF VIDEO IN(G) 111-23A,B
SD-9,922-5 5 TBC REF VIDEO IN(X) 111-24A,B
CN137
CN PANEL,568-1 1 SYNC PHASE CONT(REM) 135-1
CN PANEL,568-2 2 HUE CONTROL(REMOTE) 135-2
CN PANEL,568-3 3 SC PHASE CONT(REMOTE) 135-3
CN PANEL,568-4 4 VIDEO CONTROL(REMOTE) 135-4
CN PANEL,568-5 5 SET UP CONTROL(REMOTE) 135-5
CN PANEL,568-6 6 CHROMA CONTROL(REMOTE) 135-6
CN PANEL,568-15 7 REG +12V OUT
CN PANEL,568-7 8 REG -12V OUT
CN PANEL,568-8 9 GND
CN PANEL,568-9 10 GND
CN150
MB-49,140-10 1 REG -12V
MB-49,140-9 2 REG -12V
MB-49,140-8 3 REG -12V
MB-49,140-7 4 GND
MB-49,140-6 5 GND
MB-49,140-5 6 GND
MB-49,140-4 7 GND
MB-49,140-3 8 REG +12V
MB-49,140-2 9 REG +12V
MB-49,140-1 10 REG +12V
CN151
MB-49,141-10 1 REG +5V OUT
MB-49,141-9 2 REG +5V OUT
MB-49,141-8 3 F PULSE OUT 111-11B
MB-49,141-7 4 L:MODE-EDIT IN 112-24A
MB-49,141-6 5 TBC Y OUT (X) 107-6A,B
MB-49,141-5 6 TBC Y OUT (G) 107-5A,B
MB-49,141-4 7 TBC B-Y OUT (X) 107-4A,B
MB-49,141-3 8 TBC B-Y OUT (G) 107-3A,B
MB-49,141-2 9 TBC R-Y OUT (X) 107-2A,B
MB-49,141-1 10 TBC R-Y OUT (G) 107-1A,B
CN107,108 PR-48
CN109,110 MY-17
CN111,112 CK-14
MB-73
CN152
112-2A BF OUT 1 MB-49,142-1
111-20B 4fsc (+) IN 2 MB-49,142-2
111-14B C BLKG OUT 3 MB-49,142-3
10109,111-7B,107-10B R ZERO OUT 4 MB-49,142-4
111-7A 109-7B +V/-V OUT 5 MB-49,142-5
111-20A 4fsc (-) IN 6 MB-49,142-6
111-13A H:INT/L:EXT OUT 7 MB-49,142-7
111-15A REF SYNC OUT 8 MB-49,142-8
111-15B 1st FIELD PULSE OUT 9 MB-49,142-9
111-14A BG PULSE OUT 10 MB-49,142-10
CN153
108-26B ADVANCED Y IN(G) 1 MB-49,143-10
108-29A,B R-Y/B-Y IN(X) 2 MB-49,143-9
108-27B ADVANCED Y IN(X) 3 MB-49,143-8
108-28A,B R-Y/B-Y IN(G) 4 MB-49,143-7
108-27A DEMOD'ED Y IN(X) 5 MB-49,143-6
110-24A Y DO DET PULSE IN(X) 6 MB-49,143-5
111-17B H:IN PHASE IN 7 MB-49,143-4
108-26A DEMOD'ED Y IN(G) 8 MB-49,143-3
107-10A CR DO OUT(X) 9 MB-49,143-2
111-6A,109-6A FIELD O/E OUT 10 MB-49,143-1
CN154
108-24A DELAYED TDM-C IN(G) 1 MB-49,144-10
108-23A DELAYED TDM-C IN(X) 2 MB-49,144-9
112-26A L:Y-R,B SELECT IN 3 MB-49,144-8
4 MB-49,144-7
110-23 C DO DET PULSE IN(X) 5 MB-49,144-6
6 MB-49,144-5
7 MB-49,144-4
112-9A L:EN FR OFF OUT 8 MB-49,144-3
112-16A SPARE EN CK-1 OUT 9 MB-49,144-2
112-10A H:SHIFT OFF IN 10 MB-49,144-1
CN155
111-6B L:C CLAMP INHIBIT OUT 1 MB-49,145-10
2 MB-49,145-9
3 MB-49,145-8
4 MB-49,145-7
5 MB-49,145-6
112-7A L:NORMAL/H:BID IN 6 MB-49,145-5
7 MB-49,145-4
REG -12V OUT 8 MB-49,145-3
REG -12V OUT 9 MB-49,145-2
REG -12V OUT 10 MB-49,145-1
CN156
108-30A SPEED 1
108-30B,112-28A SPEED GND 2
108-18A CLAMP CR 3
110-29A SKP 4
110-28A V 5
110-27A V SELECT 6
112-21A C SH OUT 7
112-22A,108-22B Y SH OUT 8
DT 9
10
11
REG +12V 12
CN157
1 MB-49,148-10
2 MB-49,148-9
3 MB-49,148-8
4 MB-49,148-7
5 MB-49,148-6
6 MB-49,148-5
7 MB-49,148-4
109-4B 111-3B PURE VD OUT 8 MB-49,148-3
9 MB-49,148-2
109-4A 111-4A HD OUT 10 MB-49,148-1
40P FLAT CABLE
CN513
SY-4,1-2 1 CUT-IN STS IN
SY-4,1-1 2 FFWD CMD OUT
SY-4,1-4 3 VIDEO INSERT CMD OUT
SY-4,1-3 4 PLAY CMD OUT
SY-4,1-6 5 AUDIO-1 INS CMD OUT
SY-4,1-5 6 REW CMD OUT
SY-4,1-8 7 AUDIO-2 INS CMD OUT
SY-4,1-7 8 EJECT CMD OUT
SY-4,1-10 9 CTL IN
SY-4,1-9 10 STOP CMD OUT
SY-4,1-12 11 SEARCH CMD B OUT
SY-4,1-11 12 PAUSE CMD OUT
SY-4,1-14 13 SEARCH CMD A OUT
SY-4,1-13 14 REC CMD OUT
SY-4,1-16 15 REVERCE CMD OUT
SY-4,1-15 16 CUT-IN CMD OUT
SY-4,1-18 17 TACH IN
SY-4,1-17 18 EDIT CMD OUT
SY-4,1-20 19 CAPSTAN LOCK IN
SY-4,1-19 20 CUT-OUT CMD OUT
SY-4,1-22 21 SYNCHRONIZE
SY-4,1-21 22 FFWD STS IN
SY-4,1-24 23 PAUSE STS-2 IN
SY-4,1-23 24 PLAY STS IN
SY-4,1-26 25 STANDBY STS IN
SY-4,1-25 26 REW STS IN
SY-4,1-28 27 PAUSE STS-1 IN/OUT
SY-4,1-27 28 STOP STS IN
SY-4,1-30 29 SEARCH CMD OUT
SY-4,1-29 30 REC STS IN
SY-4,1-32 31 X MIT (+) IN
SY-4,1-31 32 X MIT (-) IN
SY-4,1-34 33 RCV (-) OUT
SY-4,1-33 34 RCV (+) OUT
SY-4,1-36 35
SY-4,1-35 36 NORMAL FWD OUT
SY-4,1-38 37 STILL TENSION OUT
SY-4,1-37 38
SY-4,1-40 39
SY-4,1-39 40
PIGTAIL
SD-9,924-1 0 UNREG -15V IN
SD-4,924-2 4 UNREG +9V IN
SD-4,924-3 8 GND
0 CHASSIS GND
RM-24
CN921
1
CP-62,541-6 2 L:8H ADV OFF CONT OUT
CP-62,541-9 3 REF VIDEO IN(X)
CP-62,541-10 4 REF VIDEO IN(G)
CP-62,541-2 5 L:AUTO/H:EXT IN
CN PANEL,570 6 REF VIDEO OUT(X) BNC
CN PANEL,570 7 REF VIDEO OUT(G)
CN PANEL,557-9 8 DUB REF VIDEO OUT(X)
CN PANEL,557-10 9 DUB REF VIDEO OUT(G)
CP-62,541-7 10 DUB REF IN(X)
CP-62,541-8 11 DUB REF IN(G)
CP-62,541-3 12 L:8H ADVANCE OFF IN
CN922
MB-49,133-1 1 REF VIDEO OUT(X) EN
MB-49,133-2 2 REF VIDEO OUT(G)
MB-73,136-1 3 L:CTDM OUT
MB-73,136-2 4 H:8H ADVANCE OFF OUT
MB-50,217-1 5 C-C SYNC IN(X)
MB-50,217-2 6 C-C SYNC IN(G)
MB-49,133-7 7 SV SYNC OUT(X)
MB-49,133-6 8 SV SYNC OUT(G)
MB-49,133-5 9 H:PLAYER NOR FWD IN
MB-49,133-4 10 L:8H ADVANCE OFF OUT
CN923
MB-49,134-6 1 REG +12V IN
MB-49,134-5 2 REG +5V IN
MB-49,134-8 3 REG -5V IN
MB-49,134-7 4 REG -12V IN
MB-73,136-5 5 TBC REF VIDEO OUT(X)
MB-73,136-4 6 TBC REF VIDEO OUT(G)
MB-49,133-8 7 L:MODE-EDIT IN
MB-49,134-4 8 GND
MB-50,217-3 9 L:CTDM IN
MB-49,134-1 10 GND
MB-49,134-2 11 UNREG +9V IN
MB-49,134-3 12 UNREG -15V IN
CN924
RM-24,0 1 UNREG -15V OUT
RM-24,4 2 UNREG +9V OUT
RM-24,8 3 GND
SD-9
CN513
CN511 REMOTE-2(36P)
CN512 REMOTE-1(9P)
CN514
UNREG +9V OUT 1
UNREG -15V OUT 3
M904 FAN MOTOR
CN515
UNREG +9V OUT 1
UNREG -15V OUT 3
M905 FAN MOTOR
SP01 POWER
CN001

FRAME WIRING (4/4)



NOTE: The shaded and ⚠ -marked components are critical to safety.
Replace only with same components as specified.

SECTION 19
SPARE PARTS AND FIXTURE

19-1. PARTS INFORMATION

1. Safety Related Component Warning
   Components identified by shading marked with ⚠ on the schematic diagrams, exploded views and electrical spare parts list are critical to safe operation. Replace these components with Sony parts whose parts numbers appear as shown in this manual or in service bulletins and service manual supplements published by Sony.
2. Replacement Parts supplied from Sony Parts Center will sometimes have different shape and outside view from the parts which actually in use. This is due to "accommodating the improved parts and/or engineering changes" or "standardization of genuine parts".
   . This manual's exploded views and electrical spare parts lists are indicating the parts numbers of "the standardized genuine parts at present".
   . Regarding engineering parts changes in our engineering department, refer Sony service bulletins and service manual supplements.
3. The parts as shown "S" in SP space on the exploded views and electrical spare parts list are normally stocked for replacement purposes. The parts as shown "O" in SP space are not normally required for routine service work. Orders for parts as shown "O" will be processed, but allow for additional delivery time.
4. Item with no part number and/or no description are not stocked because they are seldom required for routine service.
5. (T) after a spring description is shown on the exploded views in order to indicate the number of a spring turn required for the use.
   (Example)
   Spring, tension (24T); This spring must be cut at its 24th turn for actual use.

19-2. EXPLODED VIEW

. Exploded views are composed of the following blocks.

(1) Take-up Side Reel Chassis
   take-up reel table
   take-up side brake
   reel motor
   tape beginning sensor

(2) Supply Side Reel Chassis
   supply reel table
   supply side brake
   reel motor

(3) Head Drum, Stationary Heads and Tape Guides Block
   head drum assy
   CTL/full erase heads
   audio/TC heads
   tape guide
   capstan motor

(4) Threading Ring Block
   threading ring

(5) Pinch Press Mechanism Block
   pinch press mechanism

(6) Supply Tension Regulator Block
   supply tension regulator

(7) Gear Box Block
   gear box

(8) Level Control Chassis Block
   level control chassis

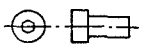
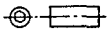
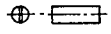
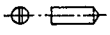
(9) Function Control Chassis Block
   function control chassis
   search dial
   hinge

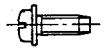
(10) Connector Panel Block
   connector panel
   ventilation fun

(11) TBC Control Block
   TBC control block
   hours meter

(12) Chassis Block (1)
   mother board

(13) Chassis Block (2)
(14) Cassette-up Compartment Block
cassette-up compartment
(15) Ornamental Panel Block (1)
function control panel
level control panel
(16) Ornamental Panel Block (2)
side panel
top panel
(17) Printed Circuit Board Block (1)
printed circuit board
(18) Printed Circuit Board Block (2)
shield case

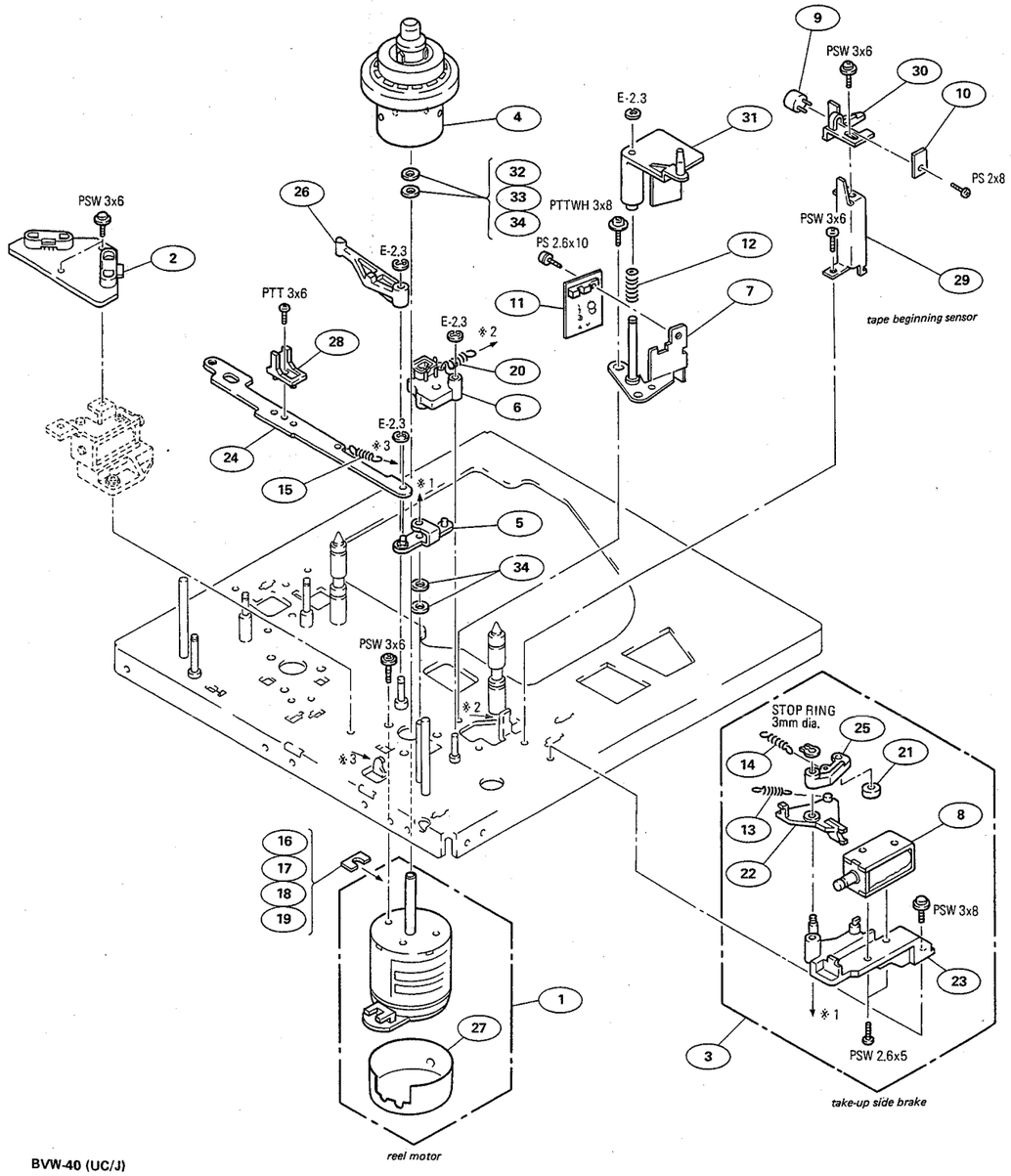
	HEXAGON SOCKET SCREW 	HEXAGON SET SCREW 	(–) SET SCREW FLAT POINT 	(–) SET SCREW CONE POINT 
2.6 x 3	———	7-621-734-09	———	———
2.6 x 4	7-621-996-24	7-621-735-09	———	———
2.6 x 5	———	7-621-736-09	———	———
2.6 x 6	7-683-412-05	———	———	7-621-712-55
2.6 x 8	7-683-413-05	———	———	7-621-712-65
2.6 x 10	———	———	———	7-621-712-75
3 x 4	———	7-683-238-01	———	———
3 x 5	———	———	7-683-175-01	———
3 x 6	7-683-403-04	———	7-683-176-01	7-683-176-21
3 x 8	7-683-404-04	———	———	7-683-177-21
3 x 10	7-683-405-04	———	———	7-683-178-21
3 x 12	———	———	———	7-683-179-21

	PS	PSW	B (BZn-N)	B (Cr-N)	PTT	PTTWH 
2.6 x 4	7-621-972-05	———	7-621-912-10	7-621-912-18	———	7-687-508-31
2.6 x 6	7-621-972-25	7-621-981-15	7-621-912-30	7-621-912-38	———	7-687-501-31
2.6 x 8	7-621-972-35	7-621-981-25	7-621-912-40	7-621-912-48	———	7-687-502-31
2.6 x 10	7-621-972-45	7-621-981-35	7-621-912-50	7-621-912-58	———	7-687-503-31
2.6 x 12	7-621-972-55	7-621-981-45	7-621-912-60	7-621-912-68	———	7-687-504-31
2.6 x 14	7-621-972-65	7-621-981-55	7-621-912-70	7-621-912-78	———	7-687-505-31
2.6 x 16	7-621-972-75	7-621-981-65	7-621-912-80	7-621-912-88	———	7-687-506-31
2.6 x 20	7-621-972-85	7-621-981-75	7-621-912-90	7-621-912-98	———	7-687-507-31
3 x 5	7-686-446-01	———	———	———	———	———
3 x 6	7-686-447-01	7-686-527-01	7-686-624-09	7-686-624-04	7-687-411-31	7-687-510-31
3 x 8	7-686-448-01	7-686-528-01	7-686-625-09	7-686-625-04	7-687-412-31	7-687-511-31
3 x 10	7-686-449-01	7-686-529-01	7-686-626-09	7-686-626-04	7-687-413-31	7-687-512-31
3 x 12	7-686-450-01	7-686-530-01	7-686-627-09	7-686-627-04	7-687-414-31	7-687-513-31
3 x 16	7-686-452-01	7-686-532-01	7-686-629-09	7-686-629-04	———	———
3 x 20	7-686-453-01	7-686-533-01	7-686-630-09	7-686-630-04	———	———
3 x 25	7-686-454-01	7-686-534-01	7-686-631-09	7-686-631-04		
4 x 8	7-686-468-01	7-686-548-01	7-686-635-09	7-686-635-04	———	———
4 x 12	7-686-470-01	7-686-550-01	7-686-637-09	7-686-637-04	———	———
4 x 14	7-686-471-01	———	7-686-638-09	7-686-638-04	———	———
4 x 16	7-686-472-01	———	7-686-639-09	7-686-639-04	———	———
4 x 20	7-686-473-01	———	7-686-640-09	7-686-640-04	———	———

	FLAT WASHER SMALL W.	FLAT WASHER MIDDLE W.	SPRING WASHER SW.	TOOTHED WASHER TYPE B LW.	HEXAGON NUT N.
2.6 mm	7-688-002-01	7-688-002-12	7-623-207-22	7-623-421-07	7-622-207-05
3 mm	7-688-003-01	7-688-003-12	7-688-003-11	7-623-422-07	7-684-023-04
4 mm	7-688-004-01	7-688-004-12	7-623-210-22	7-623-423-07	7-684-024-04
5 mm	7-688-005-01	7-688-005-01	7-623-212-22	———	7-684-025-04

	STOP RING E TYPE E.
2	7-624-104-04
2.3	7-624-105-04
3	7-624-106-04
4	7-624-108-04
5	7-624-109-04
6	7-624-110-04

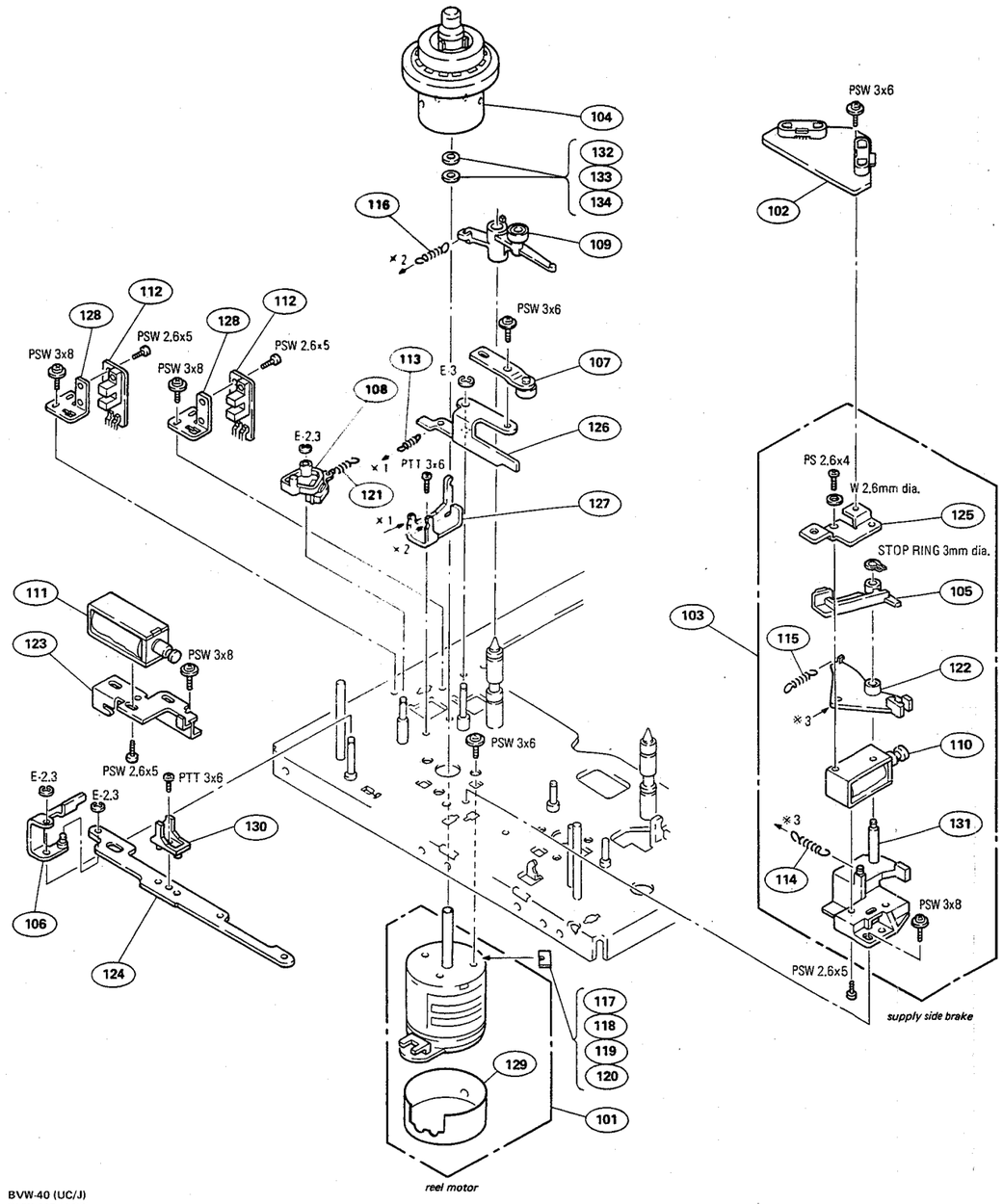
Take-up Side Reel Chassis



BVW-40 (UC/J)
BVW-40P (AEP)
BVW-40S (AE)

No.	Parts No.	SP	Description
1	A-6737-113-B	s	MOTOR ASSY, REEL
2	A-6739-018-A	s	PC BOARD ASSY, DM
3	A-6741-044-B	s	BRAKE ASSY, T
4	X-3675-801-3	s	TABLE ASSY, REEL
5	X-3675-804-0	o	ARM ASSY, TB
6	X-3675-818-0	s	BRAKE ASSY, M
7	X-3683-502-0	o	PLATE ASSY, MR
8	1-454-336-00	s	SOLENOID, PLUNGER "T-BRAKE"
9	1-459-051-00	s	HEAD, SENSING
10	1-586-946-00	o	PRINTED CIRCUIT BOARD, SS-8
11	1-609-094-11	s	PRINTED CIRCUIT BOARD, MS-12
12	3-434-052-00	s	SPRING, COMPRESSION
13	3-489-310-XX	s	SPRING, TENSION (18T)
14	3-508-108-XX	s	SPRING, TENSION (17T)
15	3-575-358-00	s	SPRING, TENSION
16	3-630-035-01	s	SPACER, VIDEO HEAD (0.01T)
17	3-630-035-11	s	SPACER, VIDEO HEAD (0.02T)
18	3-630-035-21	s	SPACER, VIDEO HEAD (0.03T)
19	3-630-035-31	s	SPACER, VIDEO HEAD (0.04T)
20	3-648-452-00	s	SPRING, TENSION
21	3-654-617-03	s	RUBBER, T BRAKE
22	3-654-618-00	o	LIMITER, T BRAKE
23	3-654-619-00	o	CHASSIS, T BRAKE
24	3-675-815-00	o	JOINT, MB
25	3-675-816-00	o	TABLE, BRAKE, T
26	3-675-825-00	o	ARM, RELEASE
27	3-675-826-00	o	COVER, SHIELD, RM
28	3-675-833-00	o	HOLDER, MB
29	3-677-701-00	o	BRACKET, T SENSOR
30	3-677-702-00	o	HOLDER, T SENSOR
31	3-683-557-01	o	LEVER, MR
32	3-701-441-01	s	WASHER, POLY 4MM DIA. (0.13T)
33	3-701-441-11	s	WASHER, POLY 4MM DIA. (0.25T)
34	3-701-441-21	s	WASHER, POLY 4MM DIA. (0.5T)

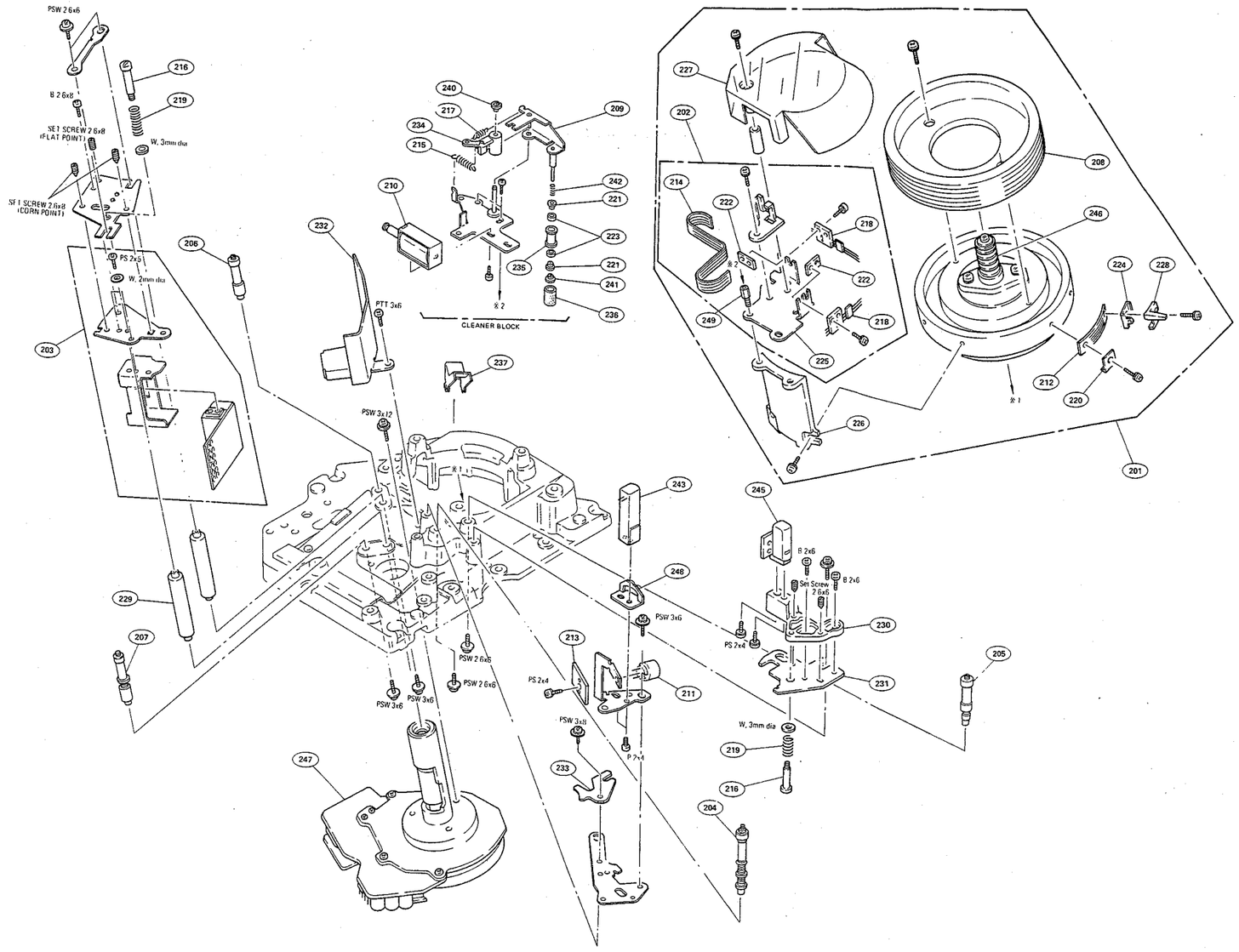
Supply Side Reel Chassis



BVW-40 (UC/J)
BVW-40P (AEP)
BVW-40S (AE)

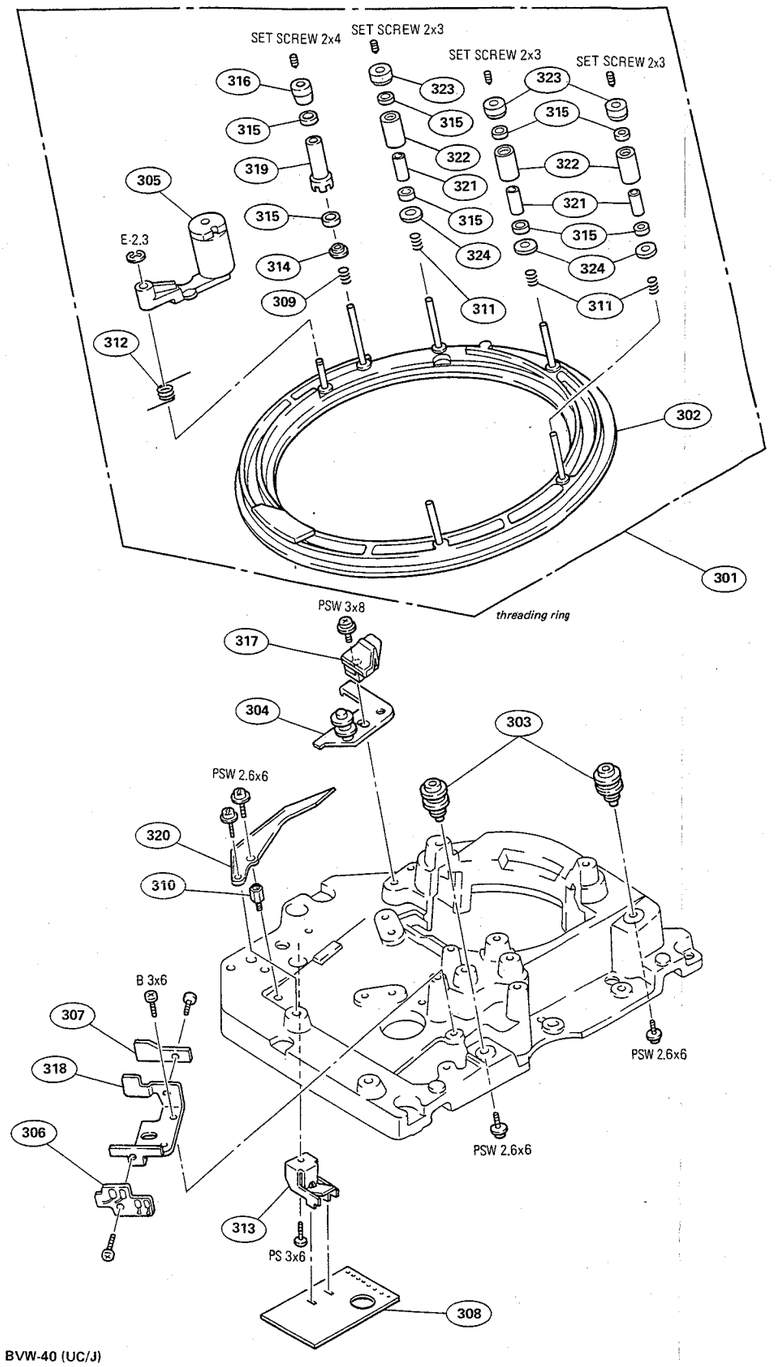
No.	Parts No.	SP	Description
101	A-6737-113-B	s	MOTOR ASSY, REEL
102	A-6739-018-A	s	PC BOARD ASSY, DM
103	A-6741-045-A	o	BRAKE ASSY, S
104	X-3675-801-3	s	TABLE ASSY, REEL
105	X-3675-803-0	s	ARM ASSY, S BRAKE
106	X-3675-805-0	o	ARM ASSY, SB
107	X-3675-806-0	o	PLATE ASSY, ADJUSTMENT, R
108	X-3675-818-0	s	BRAKE ASSY, M
109	X-3675-833-0	o	ARM ASSY, TE
110	1-454-336-00	s	SOLENOID, PLUNGER "S-BRAKE"
111	1-454-337-00	s	SOLENOID, PLUNGER "MAIN BRAKE"
112	1-608-060-00	0	PRINTED CIRCUIT BOARD, TE-2
113	2-245-253-00	s	SPRING
114	3-534-558-00	s	SPRING, TENSION
115	3-568-814-00	s	SPRING, TENSION
116	3-575-358-00	s	SPRING, TENSION
117	3-630-035-01	s	SPACER, VIDEO HEAD (0.01T)
118	3-630-035-11	s	SPACER, VIDEO HEAD (0.02T)
119	3-630-035-21	s	SPACER, VIDEO HEAD (0.03T)
120	3-630-035-31	s	SPACER, VIDEO HEAD (0.04T)
121	3-648-452-00	s	SPRING, TENSION
122	3-675-803-00	o	LIMITER, S BRAKE
123	3-675-810-00	o	BASE, MB SOLENOID
124	3-675-815-00	o	JOINT, MB
125	3-675-818-00	o	BRACKET, DM
126	3-675-819-00	o	ARM, RING
127	3-675-820-00	o	HOOK, SPRING
128	3-675-821-00	o	BRACKET, TE
129	3-675-826-00	o	COVER, SHIELD, RM
130	3-675-833-00	o	HOLDER, MB
131	3-675-838-00	o	BASE, S BRAKE
132	3-701-441-01	s	WASHER, POLY 4MM DIA. (0.13T)
133	3-701-441-11	s	WASHER, POLY 4MM DIA. (0.25T)
134	3-701-441-21	s	WASHER, POLY 4MM DIA. (0.5T)

Head Drum, Stationary Heads and Tape Guides Block



No.	Parts No.	SP	Description
201	A-6050-264-A	s	HEAD DRUM ASSY, DSH-45A-R
202	A-6709-452-A	o	BRUSH ASSY
203	A-6736-041-A	s	HEAD ASSY, AT
204	A-6746-027-A	s	ROLLER (TG1N) ASSY, TAPE
205	A-6746-028-A	s	ROLLER (TG2) ASSY, TAPE
206	A-6746-029-C	s	ROLLER (TG3) ASSY, TAPE
207	A-6746-030-C	s	ROLLER (TG4) ASSY, TAPE
208	A-6762-183-A	s	DRUM ASSY, UPPER DSR-45-R
209	X-3675-854-1	o	LEVER ASSY, C
210	1-454-372-11	s	SOLENOID, PLUNGER "CLEANER"
211	1-459-051-00	s	HEAD, SENSING
212	1-586-633-00	s	CONDENSATION SENSOR
213	1-586-946-00	o	PRINTED CIRCUIT BOARD, SS-8
214	1-611-563-00	o	PRINTED CIRCUIT BOARD, SR-21
215	3-140-263-XX	s	SPRING, TENSION (23T)
216	3-437-173-02	o	SCREW, HEAD ADJUSTING
217	3-542-475-00	s	SPRING, TENSION
218	3-607-104-00	o	BRUSH
219	3-653-350-00	s	SPRING, COMPRESSION
220	3-655-631-00	o	TERMINAL, GROUND
221	3-655-966-00	s	SPACER, STEP
222	3-665-001-00	o	NUT, PLATE
223	3-669-443-00	s	BEARING, BALL
224	3-675-701-00	o	TERMINAL BOARD
225	3-675-727-00	o	DECK, BRUSH
226	3-675-728-00	o	STUD, BRUSH SUPPORT
227	3-675-730-00	o	COVER, BRUSH
228	3-675-739-00	o	SPACER, INSULATING (2)
229	3-675-804-02	o	BRACKET, ADJUSTMENT PLATE
230	3-675-842-00	o	PLATE, ADJUSTMENT, CTL
231	3-675-846-00	o	BASE, CTL HEAD
232	3-677-715-03	o	PLATE (B), SHIELD, AT
233	3-677-794-00	o	SUPPORT, CAPSTAN
234	3-680-839-01	o	LEVER (2), C
235	3-680-840-01	o	ROLLER (1), C
236	3-680-841-01	s	ROLLER (2), C
237	3-683-567-00	o	GUARD, D.H
238	3-683-568-00	o	CASE (1), SHIELD
239	3-683-572-00	s	HOLDER (2), CONNECTOR
240	3-703-074-00	s	CAP 3, SHAFT
241	3-703-075-00	s	CAP 2, SHAFT
242	4-879-762-00	s	SPRING, COMPRESSION
243	8-825-544-20	s	HEAD, ERASE
245	8-825-554-72	s	HEAD, CTL (PS244-21A)
246	8-825-680-40	s	RING ASSY, SLIP
247	8-838-067-01	s	MOTOR, DC (BHF-1912B)
248	3-683-633-01	o	PAD, FE CORE
249	3-680-844-11	o	SPACER

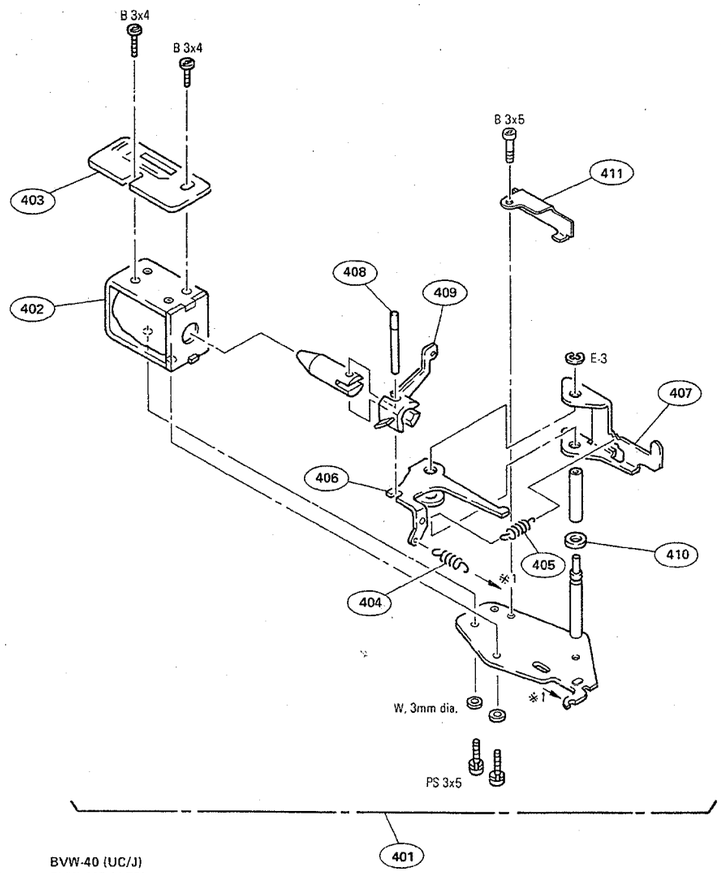
Threading Ring Block



BVW-40 (UC/J)
BVW-40P (AEP)
BVW-40S (AE)

No.	Parts No.	SP	Description
301	A-6750-153-F	o	RING ASSY, LOADING
302	X-3675-807-5	s	RING SUB ASSY, THREADING
303	X-3675-809-0	o	ROLLER (A) ASSY, RING
304	X-3675-810-0	o	ROLLER (B) ASSY, RING
305	X-3675-850-3	s	ARM ASSY, PINCH ROLLER
306	1-608-053-00	o	PRINTED CIRCUIT BOARD, LE-19
307	1-608-054-00	o	PRINTED CIRCUIT BOARD, PH-16
308	1-608-056-00	o	PRINTED CIRCUIT BOARD, HE-5
309	2-217-533-00	s	SPRING, COMPRESSION
310	2-270-601-00	o	SUPPORT
311	3-637-331-00	s	SPRING, COMPRESSION (L)
312	3-653-396-00	s	SPRING
313	3-653-487-00	o	BRACKET, RESISTOR
314	3-655-966-00	s	SPACER, STEP
315	3-669-443-00	s	BEARING, BALL
316	3-675-823-00	s	FLANGE, PRECEDING GUIDE
317	3-675-849-00	o	STOPPER, TAPE
318	3-675-862-03	o	BRACKET, DETECTION, ROTOR
319	3-677-718-04	s	ROLLER, PRECEDING GUIDE
320	3-680-803-00	o	LEVER
321	3-680-809-00	s	RETAINER, BEARING
322	3-680-810-00	s	ROLLER
323	3-680-811-00	s	FLANGE, UPPER
324	3-680-812-00	s	FLANGE, LOWER

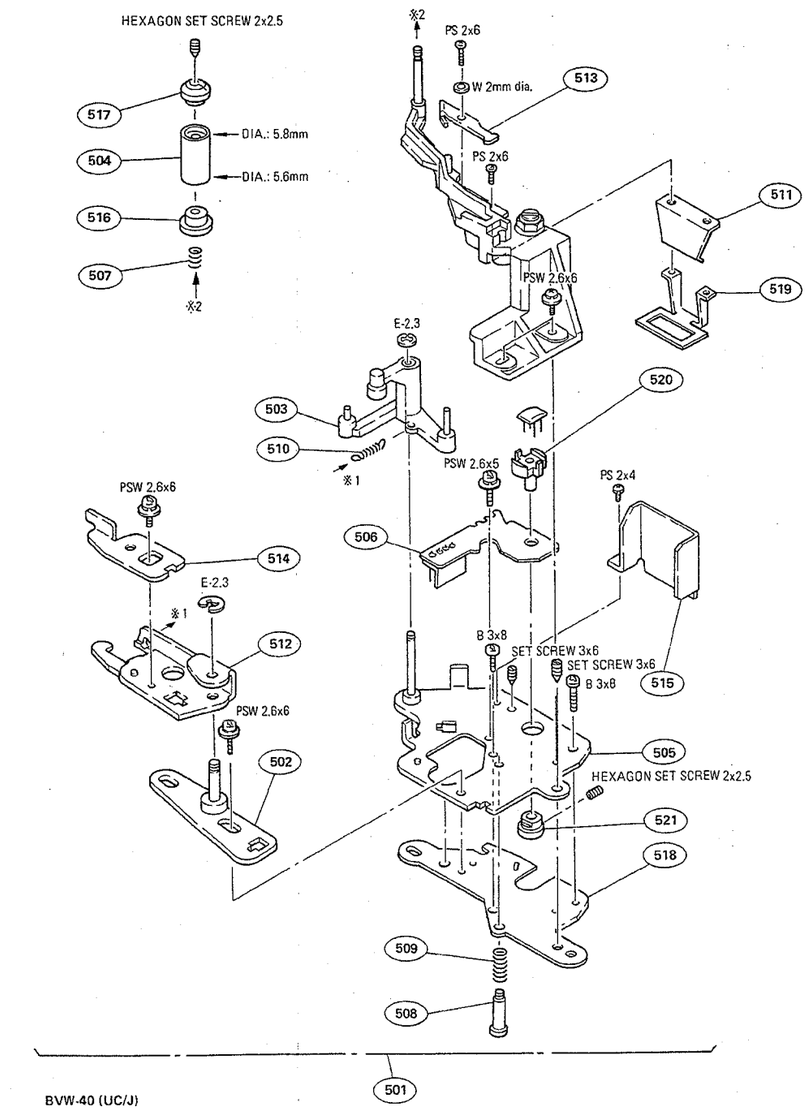
Pinch Press Mechanism Block



BVW-40 (UC/J)
BVW-40P (AEP)
BVW-40S (AE)

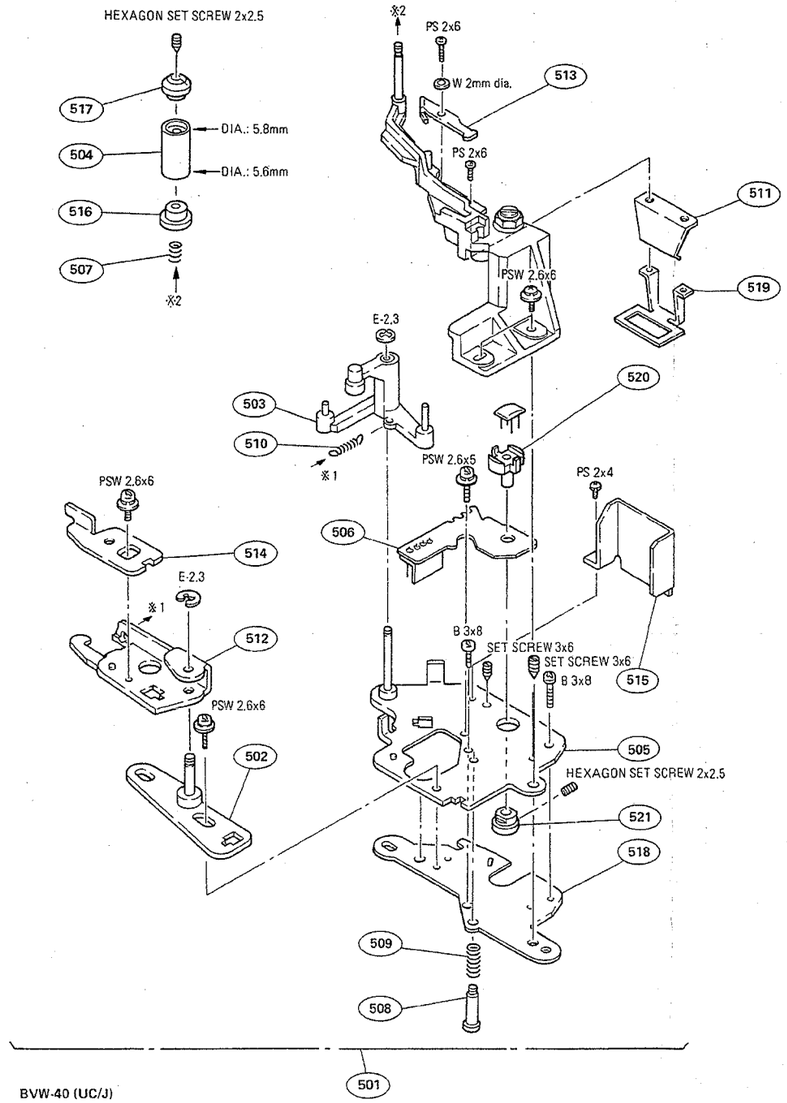
No.	Parts No.	SP	Description
401	A-6749-078-C	s	MECHA ASSY, PINCH PRESS
402	1-454-338-00	s	SOLENOID, PLUNGER "PINCH"
403	1-611-993-11	o	PRINTED CIRCUIT BOARD, PD-22
404	3-446-165-00	s	SPRING, TENSION
405	3-645-168-00	s	SPRING, TENSION
406	3-653-379-00	o	LEVER (A), PINCH COMPRESSION
407	3-653-380-02	o	LEVER (B), PINCH COMPRESSION
408	3-653-381-00	o	PIN, SOLENOID
409	3-653-383-00	o	STOPPER, SLACK SENSOR
410	3-701-441-21	s	WASHER, POLY 4MM DIA. (0.5T)
411	3-688-128-01	o	GUIDE,PINCH ARM (UC:S/N 10931 AND LATER) (J :S/N 10346 AND LATER) (P :S/N 10391 AND LATER) (S :S/N 10011 AND LATER)

Supply Tension Regulator Block



BVW-40 (UC/J)
BVW-40P (AEP)
BVW-40S (AE)

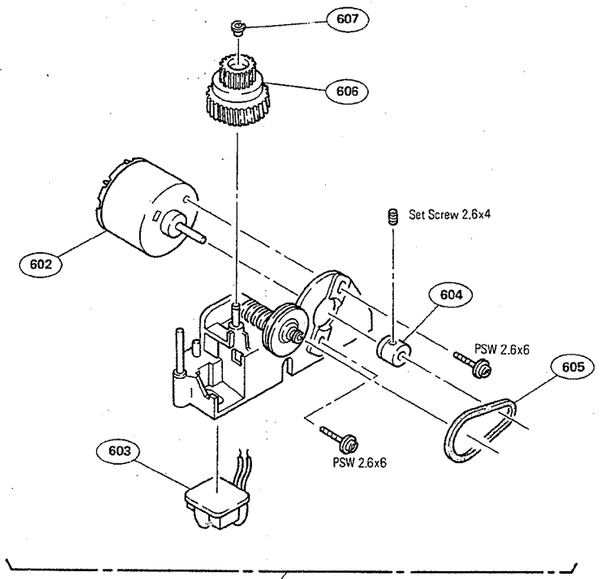
Supply Tension Regulator Block



BVW-40 (UC/J)
BVW-40P (AEP)
BVW-40S (AE)

No.	Parts No.	SP	Description
501	A-6742-045-D	s	REGULATOR ASSY, TENSION
502	X-3675-828-2	o	HOOK ASSY, TENSION REGULATOR
503	X-3675-829-3	o	ARM ASSY, REWIND
504	X-3675-851-0	s	ROLLER ASSY, TR
505	X-3675-852-0	o	PLATE ASSY, ADJUSTMENT, TR
506	1-611-279-00	o	PRINTED CIRCUIT BOARD, TR-18
507	2-618-901-00	o	SPRING
508	3-437-173-02	o	SCREW, HEAD ADJUSTING
509	3-653-350-00	s	SPRING, COMPRESSION
510	3-661-382-00	s	SPRING, TENSION
511	3-675-872-00	o	SPRING, LEAF
512	3-675-880-00	o	ARM, HOOK, TENSION REGULATOR
513	3-675-882-00	o	PLATE, ADJUSTMENT, REWIND
514	3-675-883-00	o	PLATE, ADJUSTMENT, HOOK
515	3-675-885-02	o	PLATE, SHIELD, T-DME
516	3-677-749-03	s	RETAINER, B
517	3-677-752-00	s	NUT, ADJUSTMENT, T
518	3-680-824-00	o	BRACKET, TR
519	3-680-825-00	o	PROTECTOR
520	3-680-830-01	s	HOLDER, DME
521	3-680-831-00	o	COLLAR, DME

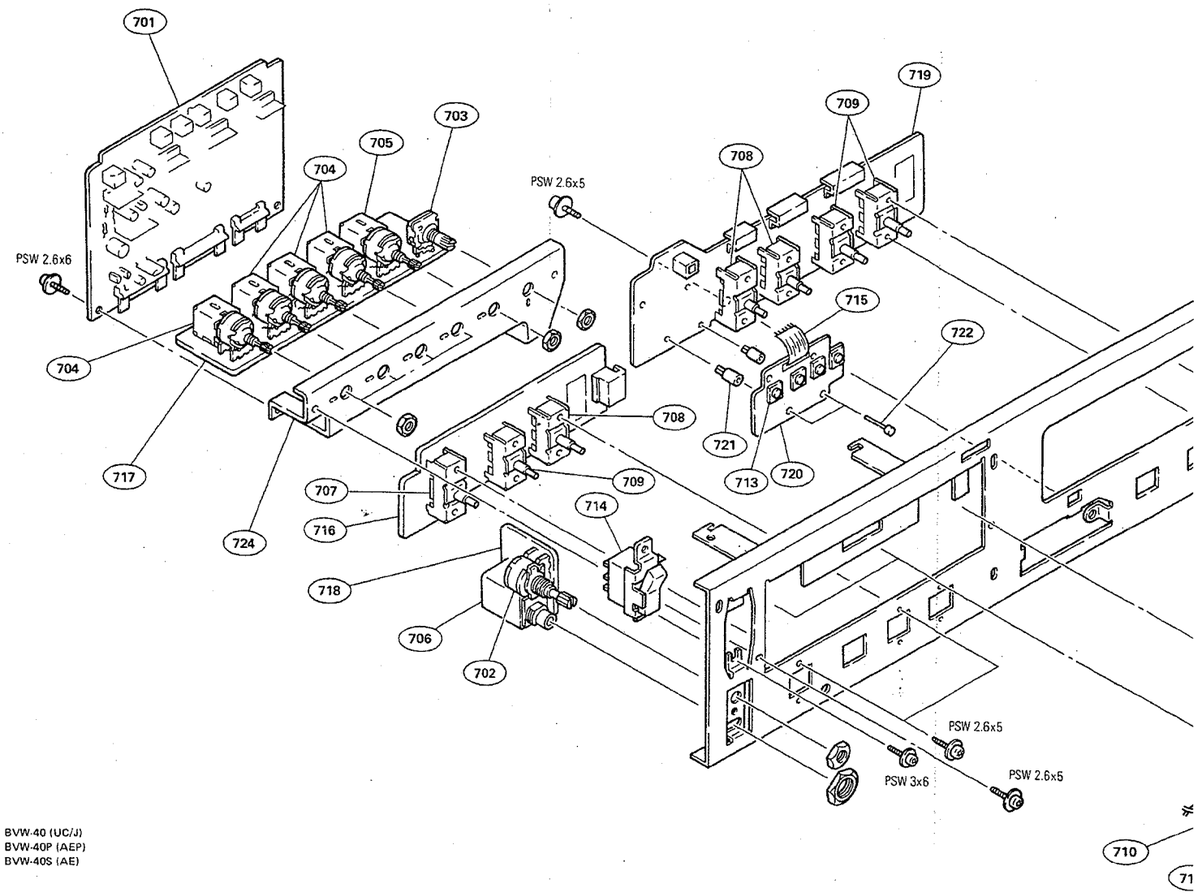
Gear Box Block



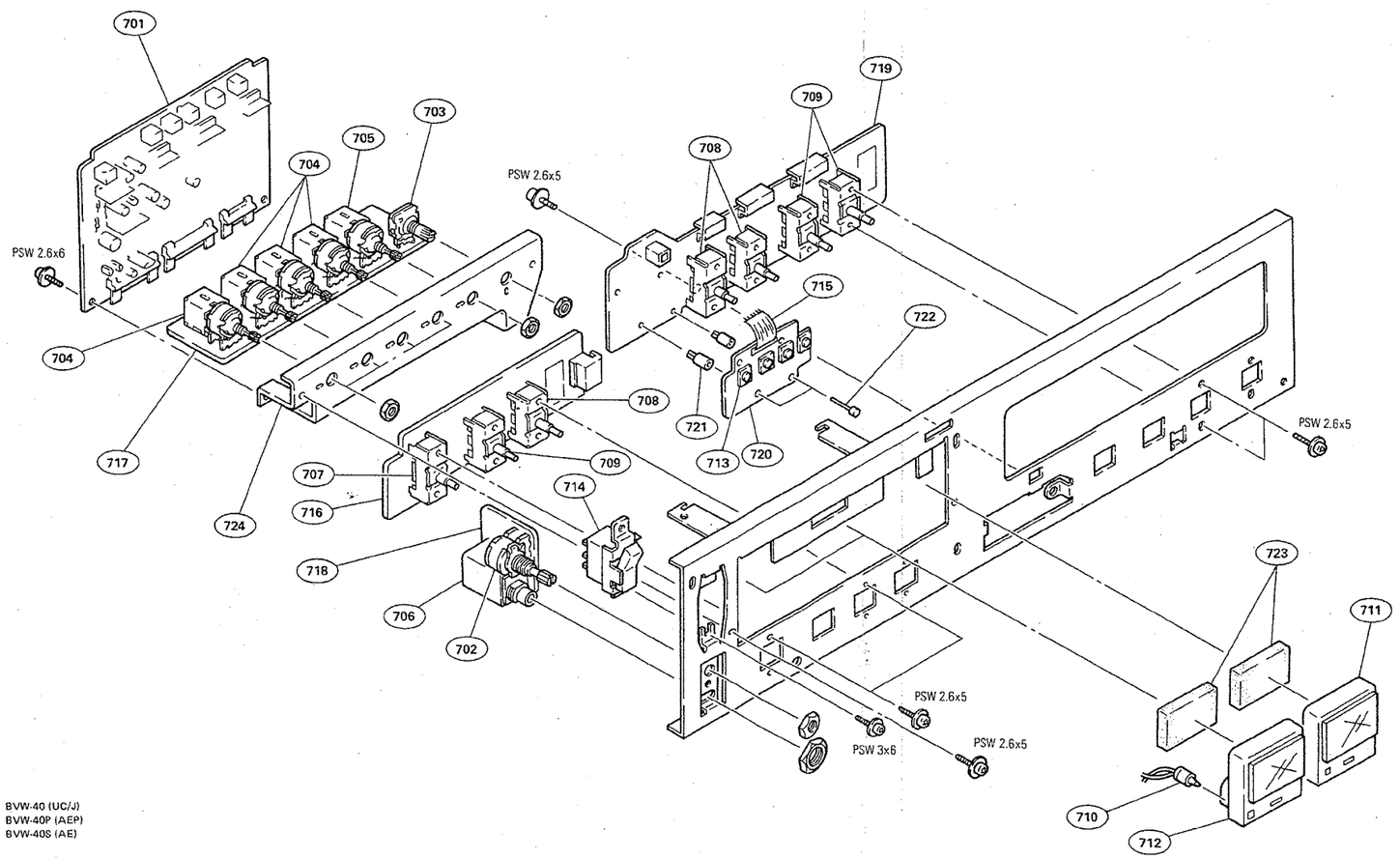
No.	Parts No.	SP	Description
601	A-6750-141-A	s	BOX ASSY, GEAR
602	1-541-163-00	s	MOTOR "THREADING"
603	1-585-913-00	o	PRINTED CIRCUIT BOARD, LM-4
604	3-653-386-00	o	PULLEY (2), LM
605	3-653-387-00	s	BELT, LM
606	3-653-388-00	s	GEAR, DRIVE
607	3-703-074-00	s	CAP 3, SHAFT

LEVEL CONTROL

Level Control Chassis Block



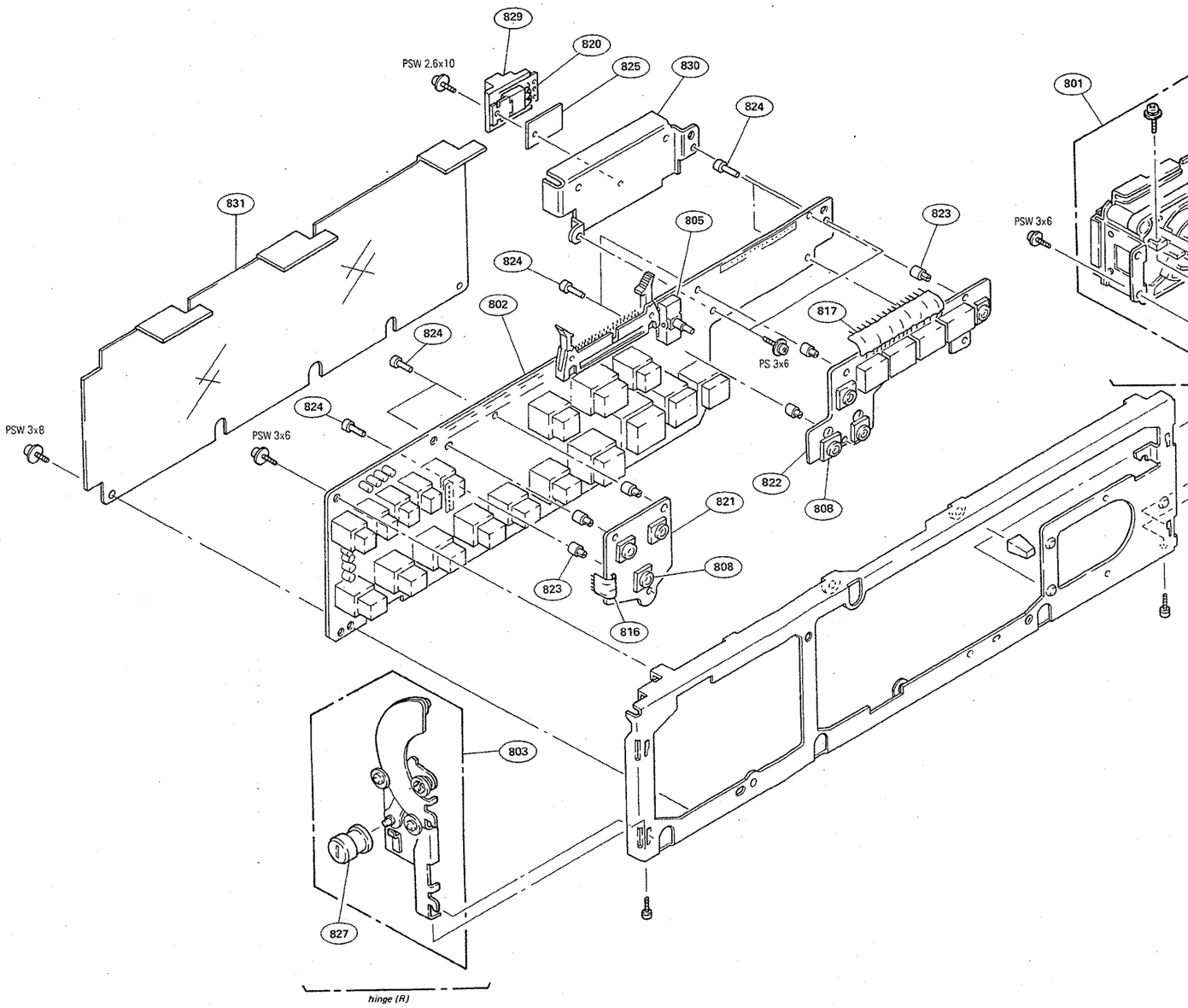
Level Control Chassis Block

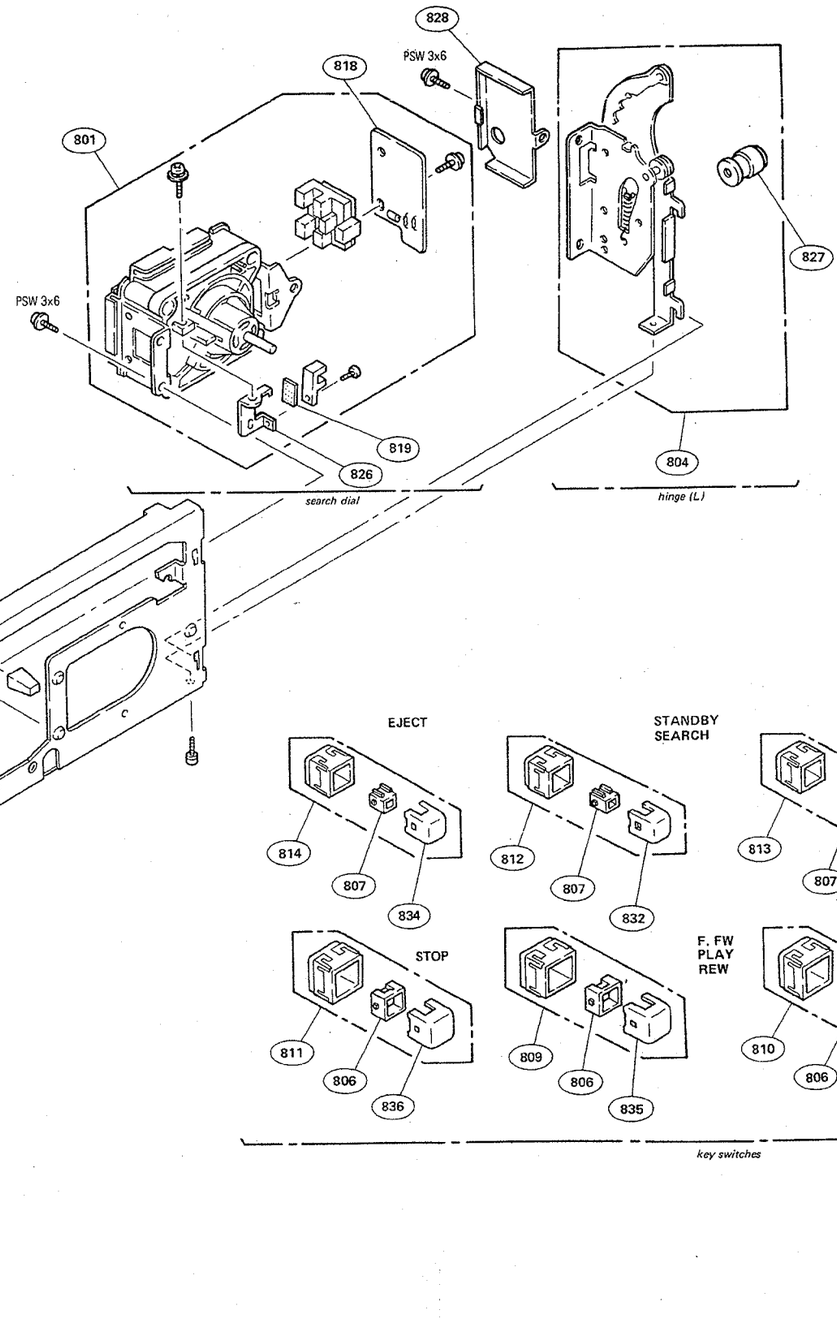


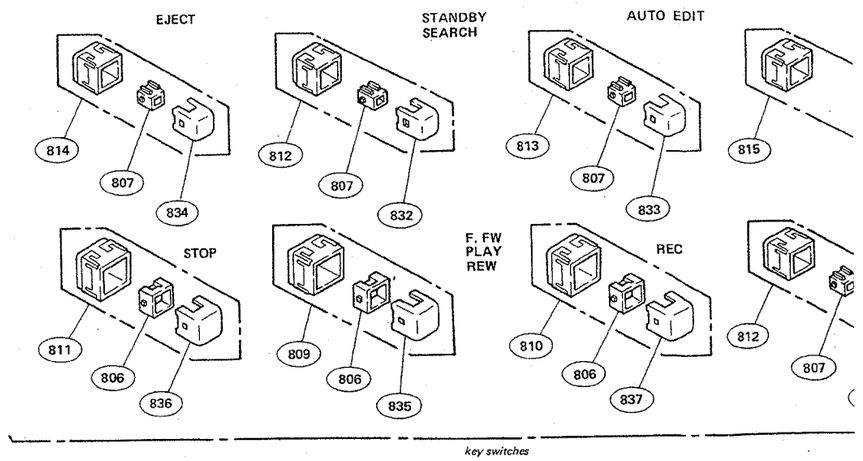
BVW-40 (UC/J)
BVW-40P (AEP)
BVW-40S (AE)

No.	Parts No.	SP	Description
701	A-6713-189-A	o	MOUNTED CIRCUIT BOARD, BF-7
702	1-226-140-00	s	RES, VAR 20K/20K "HEADPHONES"
703	1-230-339-11	s	RES, VAR, CARBON 100K
704	1-230-340-11	s	RES, VAR, CARBON (WITH SW) 10K
705	1-230-341-11	s	RES, VAR, CARBON (WITH SW) 10K
706	1-507-553-00	s	JACK "HEADPHONES"
707	1-516-963-00	s	SWITCH, LEVER SLIDE
708	1-516-994-00	s	SWITCH, LEVER SLIDE
709	1-516-995-00	s	SWITCH, LEVER SLIDE
710	1-518-461-00	s	LAMP, PILOT
711	1-520-438-00	s	METER, VIDEO
712	1-520-439-00	s	METER, VU
713	1-552-539-00	s	SWITCH, KEY BOARD
⚠ 714	1-554-256-00	s	SWITCH, LOCKER
715	1-557-236-11	o	FLAT CABLE, 6P
716	1-611-543-00	o	PRINTED CIRCUIT BOARD, SW-6
717	1-611-544-00	o	PRINTED CIRCUIT BOARD, VR-10
718	1-611-545-00	o	PRINTED CIRCUIT BOARD, HP-11
719	1-611-546-00	o	PRINTED CIRCUIT BOARD, SW-7
720	1-611-547-00	o	PRINTEC CIRCUIT BOARD, SW-8
721	3-659-487-00	s	HOLDER, BUZZER
722	3-659-488-00	s	PIN, BUZZER HOLDER
723	3-677-141-00	o	CUSHION, METER
724	3-683-505-00	o	BRACKET, CONTROL

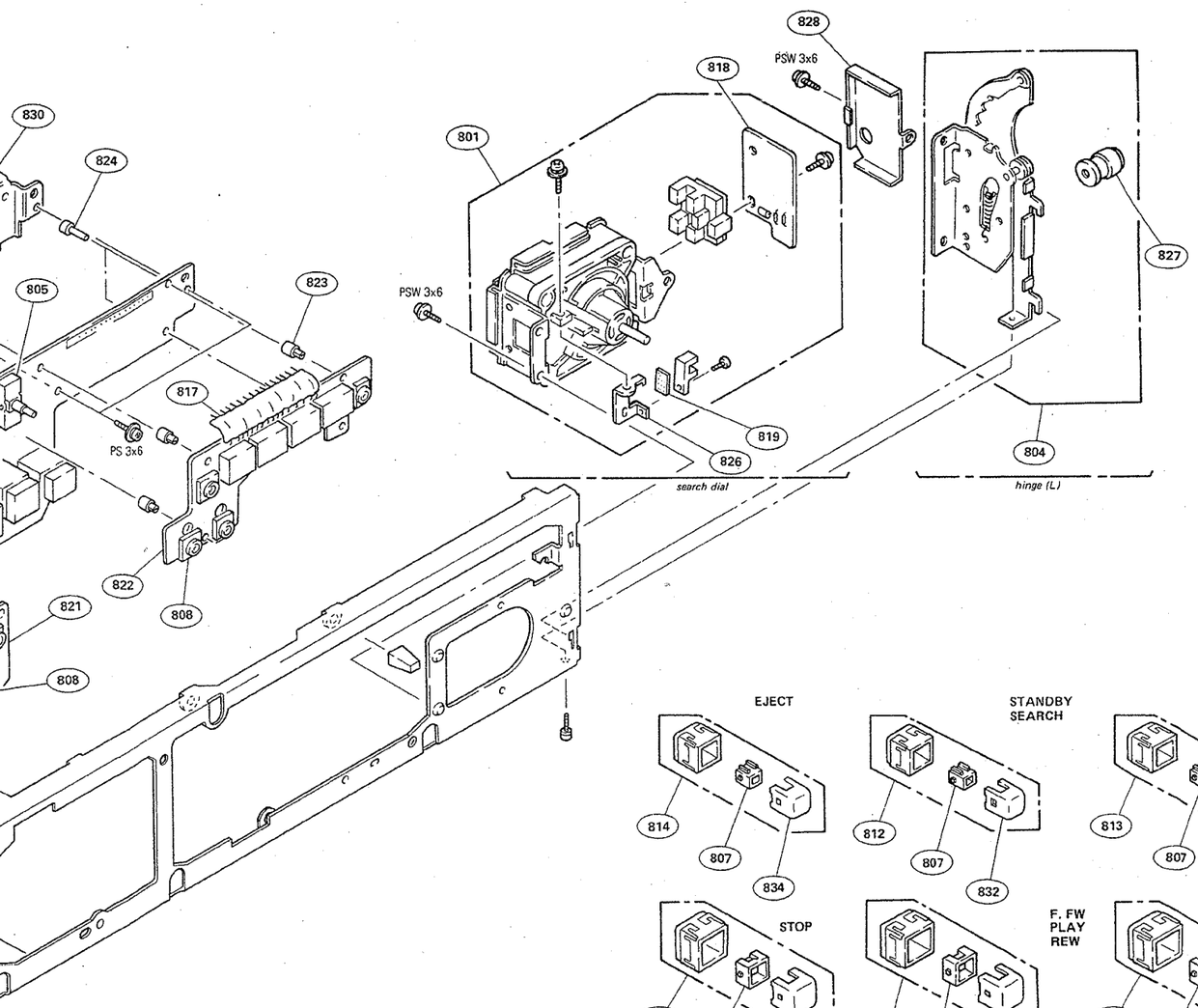
Function Control Chassis Block

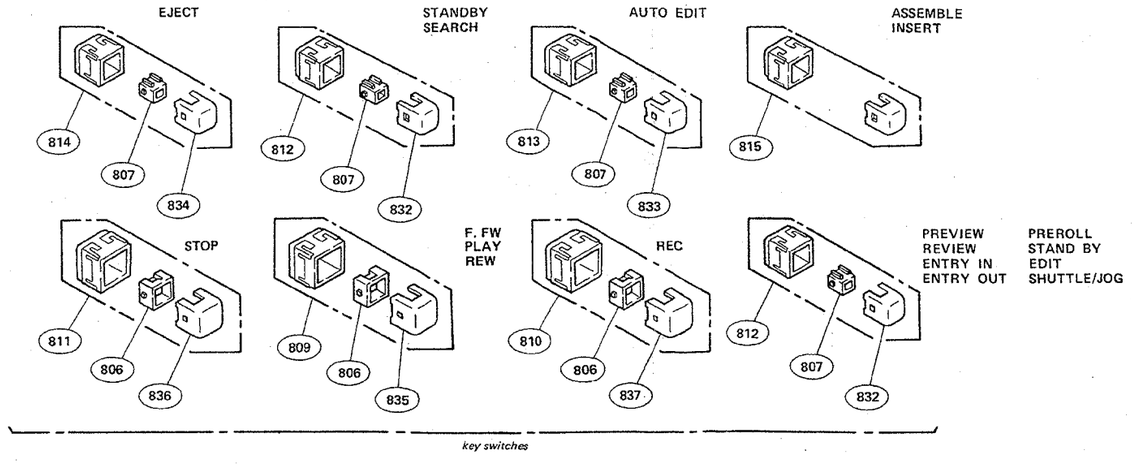






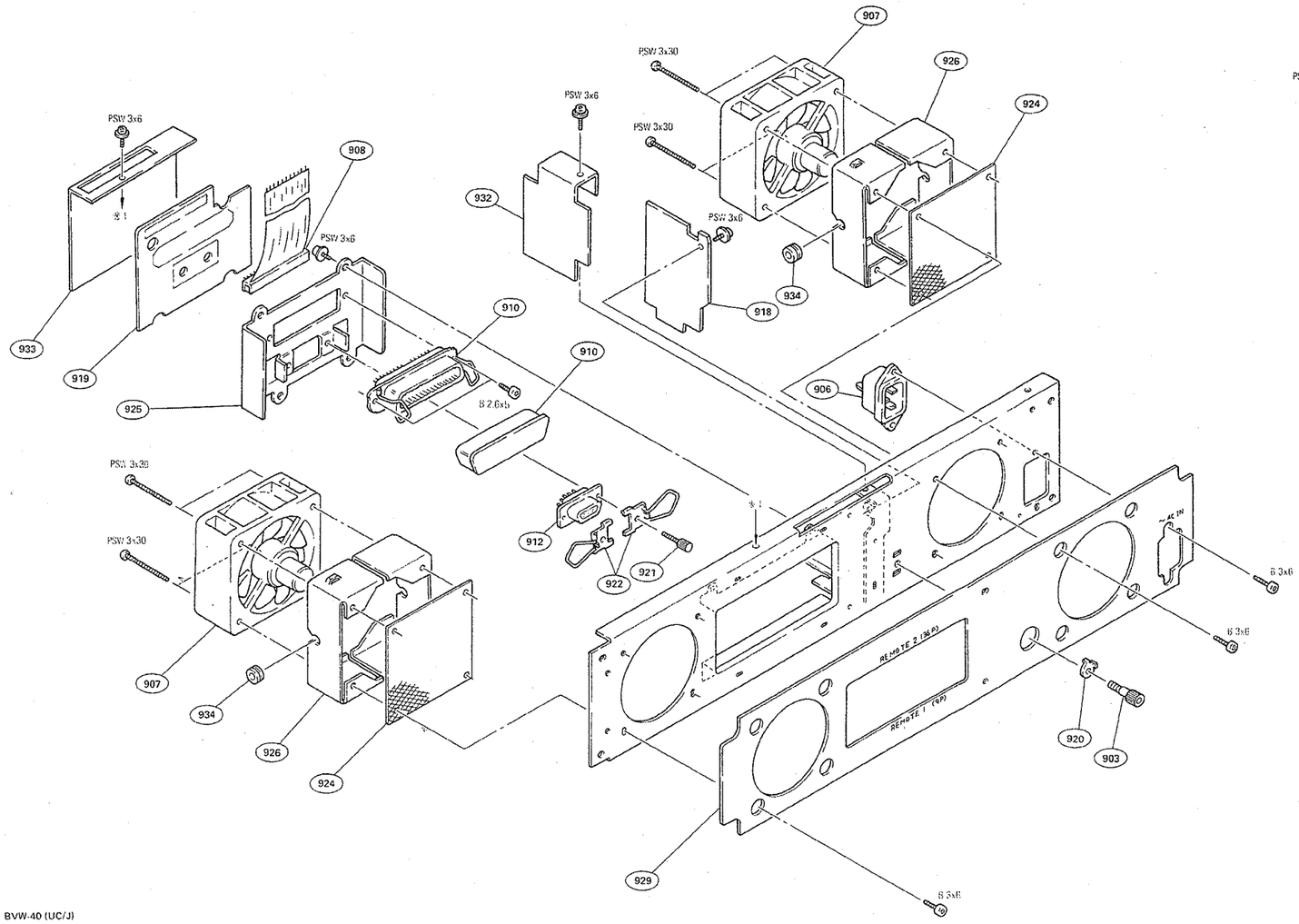
BVW-40 (UC/J)
BVW-40P (AEP)
BVW-40S (AE)



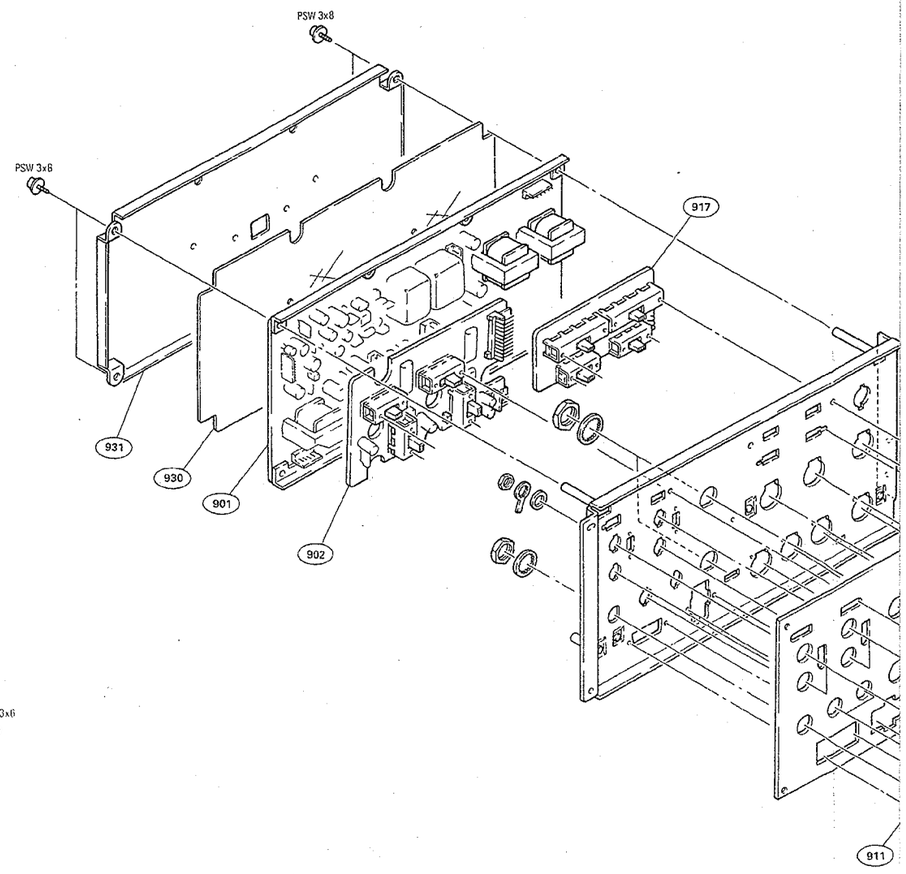


No.	Parts No.	SP	Description
801	A-6734-106-A	s	DIAL ASSY, SEARCH
802	A-6734-202-A	o	CHASSIS ASSY, KEY
803	A-6736-030-A	o	HINGE (LEFT) ASSY
804	A-6736-031-A	o	HINGE (RIGHT) ASSY
805	1-516-994-00	s	SWITCH, LEVER SLIDE
806	1-518-450-21	s	LAMP, PILOT
807	1-518-450-31	s	LAMP, PILOT
808	1-552-539-00	s	SWITCH, KEY BOARD
809	1-553-551-11	s	SWITCH, PUSH (17 SQUARE)
810	1-553-551-21	s	SWITCH, PUSH (17 SQUARE)
811	1-553-551-32	s	SWITCH, PUSH (17 SQUARE)
812	1-554-318-11	s	SWITCH, PUSH BUTTON (12 SQUARE)
813	1-554-318-21	s	SWITCH, PUSH BUTTON (12 SQUARE)
814	1-554-318-31	s	SWITCH, PUSH BUTTON (12 SQUARE)
815	1-554-708-11	s	SWITCH, PUSH (9 SQUARE)
816	1-557-236-11	o	FLAT CABLE 6P
817	1-557-237-11	o	FLAT CABLE 23P
818	1-604-351-00	o	PRINTED CIRCUIT BOARD, PC-9
819	1-604-353-00	o	PRINTED CIRCUIT BOARD, PC-14
820	1-605-018-00	o	PRINTED CIRCUIT BOARD, PT-9
821	1-611-550-00	o	PRINTED CIRCUIT BOARD, KY-47
822	1-611-551-00	o	PRINTED CIRCUIT BOARD, DP-31
823	3-659-487-00	s	HOLDER, BUZZER
824	3-659-488-00	s	PIN, BUZZER HOLDER
825	3-660-978-00	s	SHEET, HEAT RESISTING
826	3-668-151-00	o	BRACKET, PC14
827	3-668-407-00	o	NUT, LOCK
828	3-668-417-00	o	COVER, PROTECTION, PC9
829	3-669-904-00	o	HOLDER, PT
830	3-683-513-00	o	HEAT SINK, KY
831	3-683-619-01	o	COVER, KEY PANEL
832	3-706-480-01	s	KEY TOP (WHITE)
833	3-706-480-12	s	KEY TOP (RED)
834	3-706-480-22	s	KEY TOP (BLUE)
835	3-706-481-01	s	KEY TOP
836	3-706-481-22	s	KEY TOP
837	3-706-481-11	s	KEY TOP (RED)

Connector Panel Block

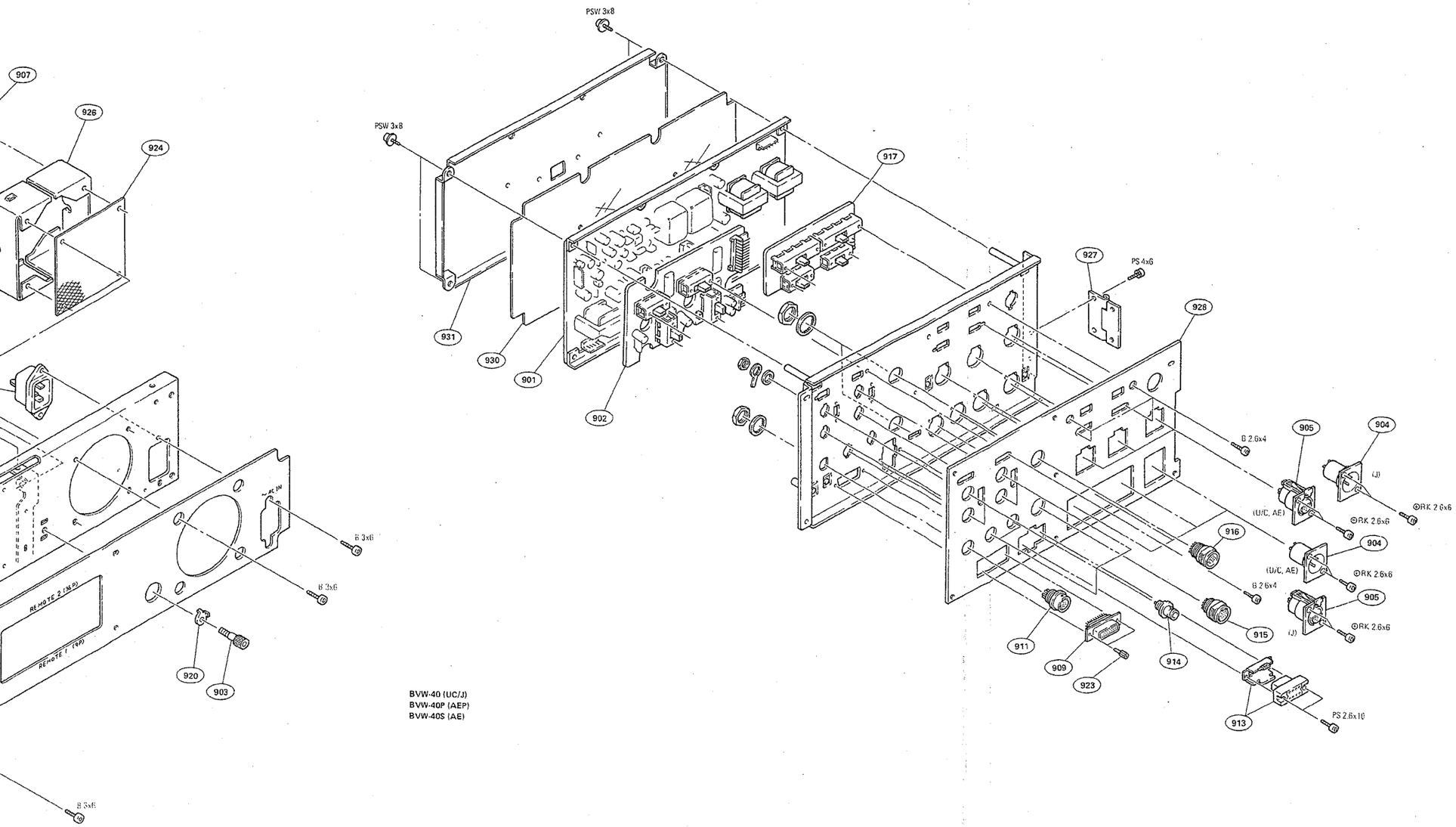


BVW-40 (UC/J)
BVW-40P (AEP)
BVW-40S (AE)



BVW-40 (UC/J)
BVW-40P (AEP)
BVW-40S (AE)

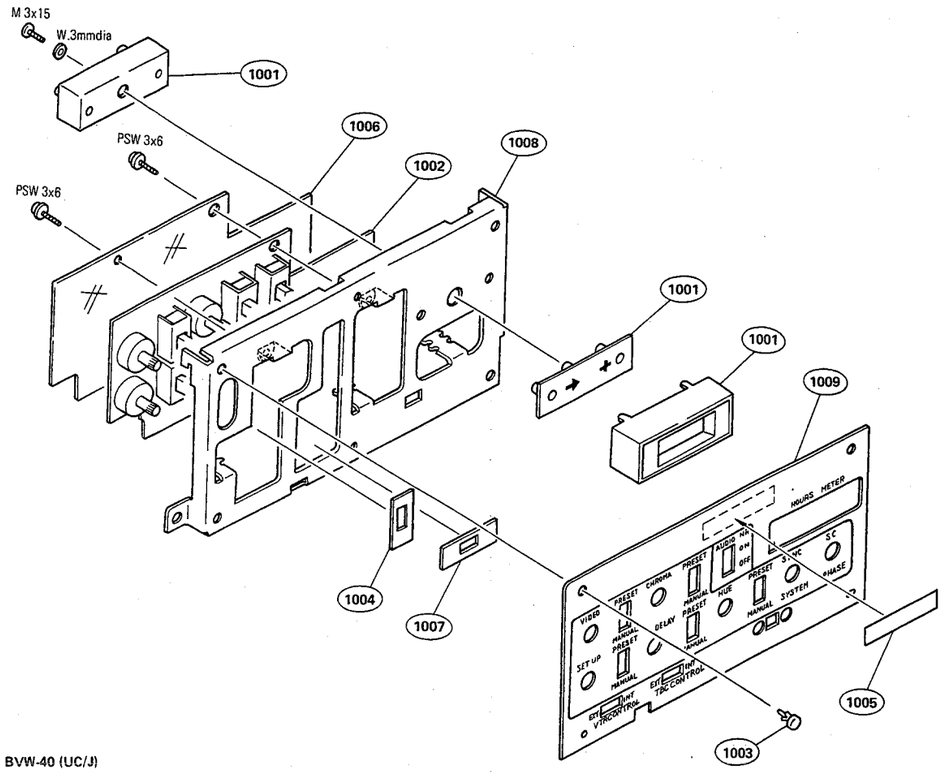
CONNECTOR PANEL



BVW-40 (UC/J)
BVW-40P (AEP)
BVW-40S (AE)

No.	Parts No.	SP	Description
901	A-6713-190-A	o	MOUNTED CIRCUIT BOARD, CP-61
902	A-6715-213-A	o	MOUNTED CIRCUIT BOARD, CP-62
903	X-2068-004-0	s	TERMINAL ASSY
904	1-509-176-31	s	RECEPTACLE, XLR, 3P (MALE)
905	1-509-184-31	s	RECEPTACLE, XLR, 3P (FEMALE)
⚠ 906	1-509-546-00	s	3P INLET
907	1-541-240-00	s	MOTOR, FAN (DC)
908	1-557-233-11	o	FLAT CABLE ASSY, 40P
909	1-560-495-00	s	RECEPTACLE, 15P, FEMALE "TBC REMOTE IN"
910	1-561-028-00	s	RECEPTACLE, 36P, "REMOTE-2"
911	1-561-045-00	s	RECEPTACLE, 7P, FEMALE "DUB U-matic OUT"
912	1-561-655-00	s	RECEPTACLE, 9P, "REMOTE-1"
913	1-509-095-00	s	RECEPTACLE, 8P "MONITOR OUT"
914	1-561-781-41	s	RECEPTACLE, BNC
915	1-562-160-00	s	RECEPTACLE, 12P, FEMALE "DUB/COMPONENT OUT"
916	1-564-407-11	s	RECEPTACLE, 12P, MALE "DUB/COMPONENT IN"
917	1-611-539-00	o	PRINTED CIRCUIT BOARD, SW-13
918	1-611-540-00	o	PRINTED CIRCUIT BOARD, AC-44
919	1-611-541-00	o	PRINTED CIRCUIT BOARD, RM-24
920	2-068-008-00	s	WASHER
921	3-668-459-00	o	SCREW, CONNECTOR
922	3-668-460-00	o	SPRING
923	3-673-910-00	o	SCREW, CONNECTOR
924	3-675-898-00	o	PLATE, VENTILATION
925	3-675-899-00	o	BRACKET, RE
926	3-683-523-00	o	BRACKET, FAN
927	3-683-559-00	o	HINGE
928	3-683-587-16	o	PLATE, ORNAMENTAL, CONNECTOR
929	3-683-597-01	o	PLATE, ORNAMENTAL, REAR
930	3-683-608-01	o	SHEET, INSULATING, CP
931	3-683-609-01	o	PROTECTOR, CP
932	3-683-610-01	o	PROTECTOR, AC
933	3-683-611-01	o	PROTECTOR, RM
934	3-815-122-00	o	BUSHING, RUBBER

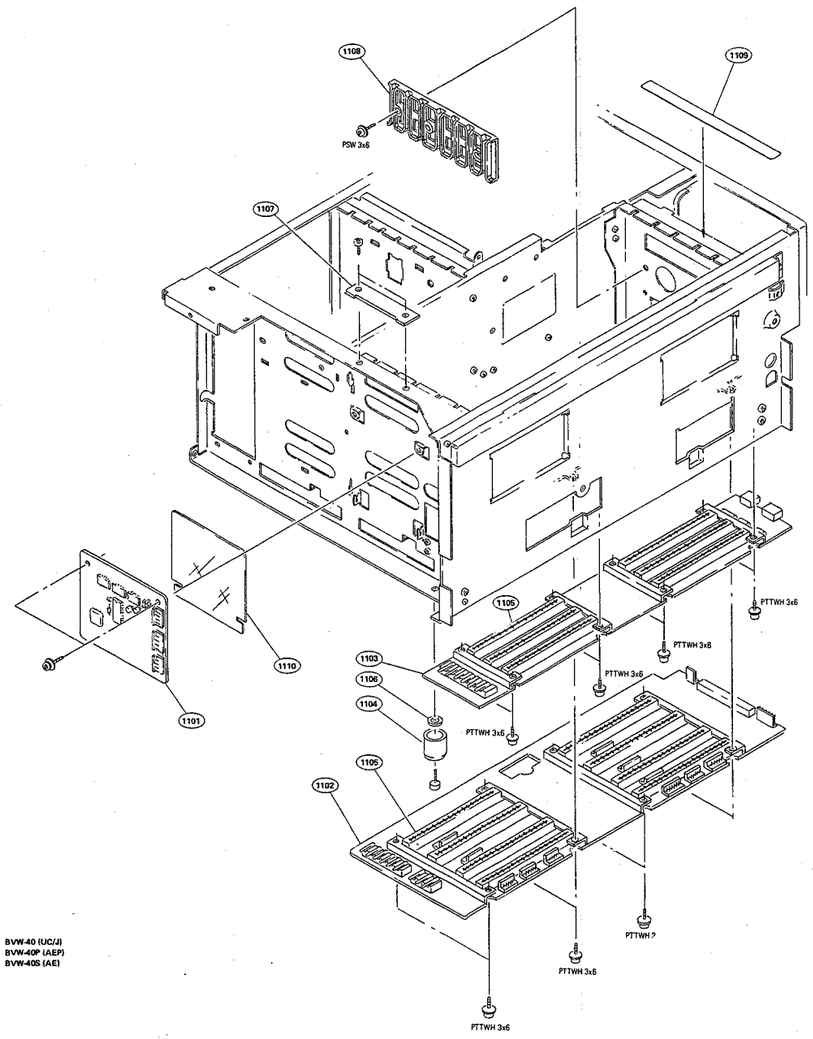
TBC Control Block



BVW-40 (UC/J)
BVW-40P (AEP)
BVW-40S (AE)

No.	Parts No.	SP	Description
1001	1-548-100-11	s	HOURS METER
1002	1-611-548-13	o	PRINTED CIRCUIT BOARD, CP-74
1003	3-531-576-01	s	RIVET
1004	3-677-727-00	s	PLATE, SWITCH
1005	3-678-782-00	o	LABEL, DOLBY (C)
1006	3-683-524-00	o	COVER, ST
1007	3-683-525-00	o	PLATE (LARGE), SWITCH
1008	3-683-539-00	o	BRACKET, ST
1009	3-683-640-01	o	PLATE (S), ORNAMENTAL, ST

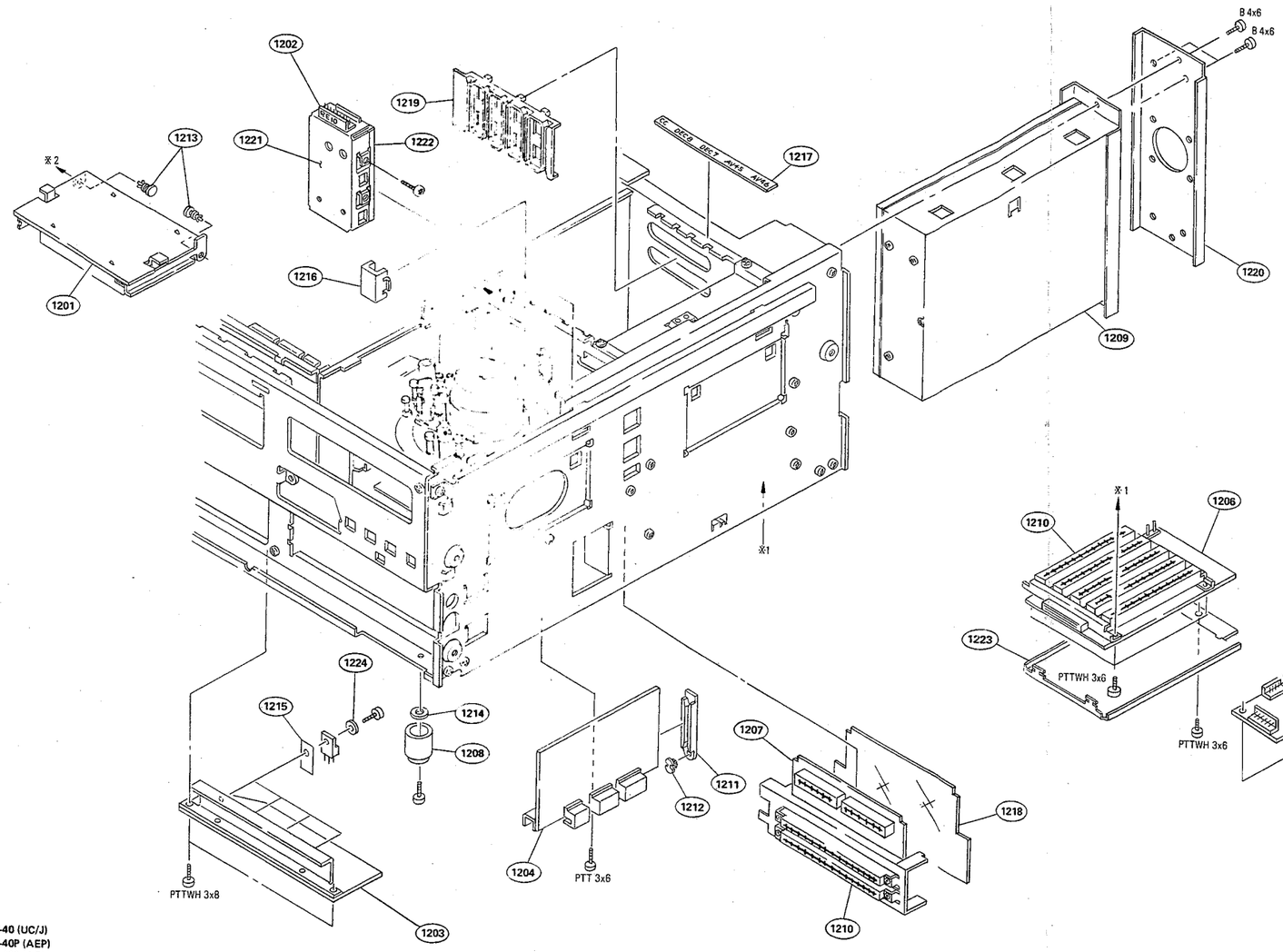
Chassis Block (1)



BVW-40 (UC/J)
BVW-40P (AEP)
BVW-40S (AE)

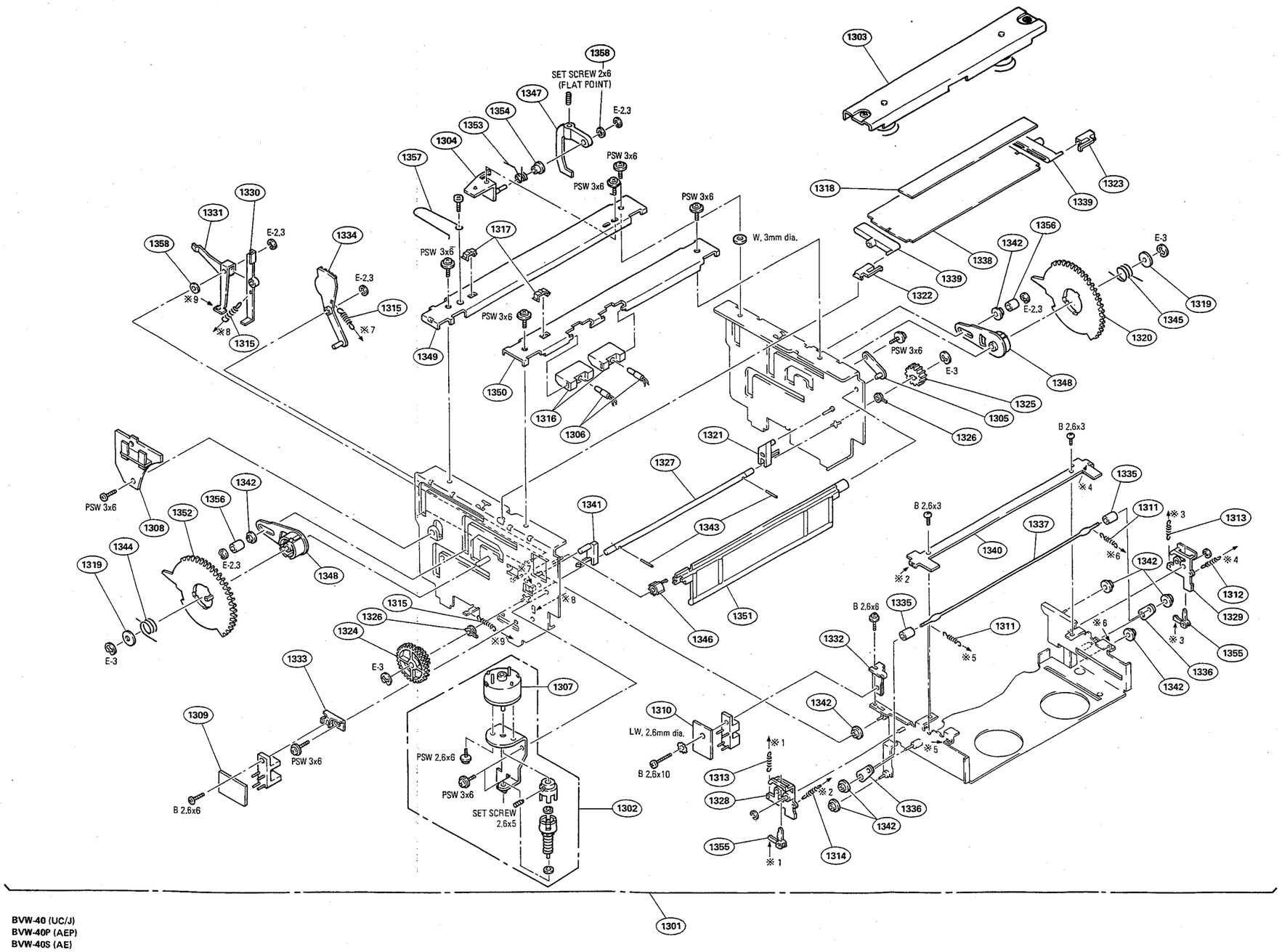
No.	Parts No.	SP	Description
1101	A-6711-572-A	o	MOUNTED CIRCUIT BOARD, SD-9
1102	A-6729-082-A	o	MOUNTED CIRCUIT BOARD, MB-49S
1103	A-6729-083-A	o	MOUNTED CIRCUIT BOARD, MB-73S
1104	X-4838-902-X	s	FOOT
1105	1-560-919-11	o	CONNECTOR, CARD 60P
1106	3-650-537-00	o	WASHER
1107	3-668-424-00	o	RETAINER (REAR), FC
1108	3-683-530-00	o	GUIDE (L), PCB
1109	3-683-578-01	o	LABEL (1), PC BOARD
1110	3-683-607-01	o	SHEET, INSULATING, SD

Chassis Block (2)



No.	Parts No.	SP	Description
1201	A-6711-515-B	o	MOUNTED CIRCUIT BOARD, RP-15P
1202	A-6711-495-A	o	MOUNTED CIRCUIT BOARD, RE-10
1203	A-6715-212-A	o	MOUNTED CIRCUIT BOARD, RD-2
1204	A-6717-343-A	o	MOUNTED CIRCUIT BOARD, BC-5
1205	A-6717-344-A	o	MOUNTED CIRCUIT BOARD, BC-6
1206	A-6728-921-C	o	MOUNTED CIRCUIT BOARD, MB-50
1207	A-6728-922-A	o	MOUNTED CIRCUIT BOARD, MB-52
1208	X-4838-902-X	s	FOOT
⚠ 1209	1-413-166-11	s	SWITCHING REGULATOR (UR-09)
1210	1-561-654-00	o	CONNECTOR, CARD 86P
1211	2-234-447-00	o	GUIDE, CHASSIS
1212	3-637-219-00	o	GUIDE HOOK, CIRCUIT BOARD
1213	3-646-090-00	s	RIVET, NYLON
1214	3-650-537-00	o	WASHER
1215	3-660-978-00	s	SHEET, HEAT RESISTING
1216	3-677-741-00	o	GUARD, AIR
1217	3-683-637-11	o	LABEL (2), PC BOARD
1218	3-683-520-00	o	PROTECTOR, MB-52
1219	3-683-532-00	o	GUIDE (S), PC BOARD
1220	3-683-538-00	o	PANEL, POWER
1221	3-683-580-01	o	CASE (A), RE
1222	3-683-581-01	o	CASE (B), RE
1223	3-683-591-01	o	PROTECTOR, MB-50
1224	4-026-252-00	o	WASHER, INSULATING

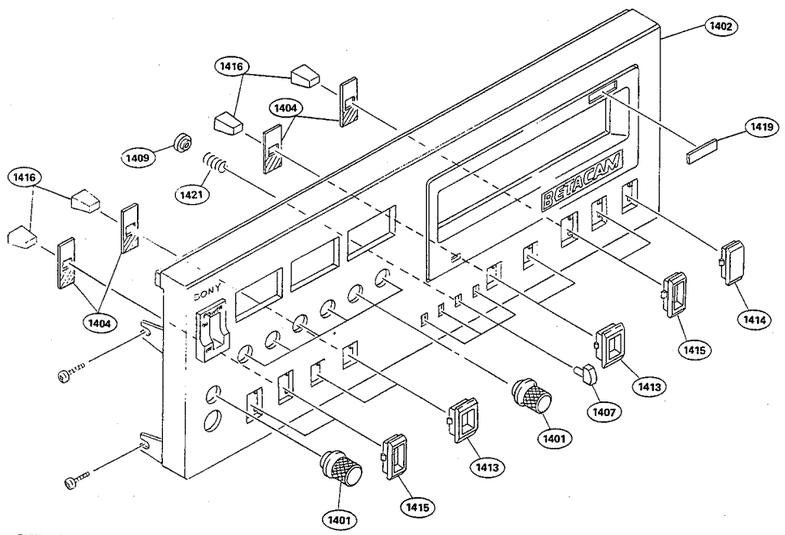
Cassette-up Compartment

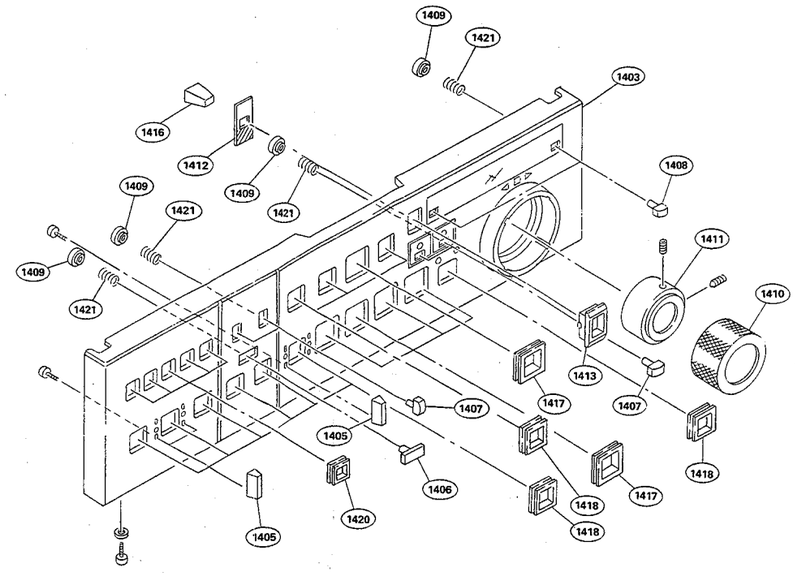


No.	Parts No.	SP	Description
1301	A-6751-151-C	s	CASSETTE COMPARTMENT ASSY
1302	A-6751-170-A	s	MOTOR BLOCK ASSY
1303	X-3675-819-0	s	STAY ASSY, CASSETTE COMPARTMENT
1304	X-3675-820-0	o	BRACKET ASSY, LEVER
1305	X-3675-821-3	o	BRACKET ASSY, WINDOW
1306	1-518-508-00	s	LAMP, PILOT
1307	1-541-163-00	s	MOTOR "CASSETTE-UP"
1308	1-608-052-00	o	PRINTED CIRCUIT BOARD, CL-7
1309	1-608-070-00	o	PRINTED CIRCUIT BOARD, PC-17
1310	1-608-071-00	o	PRINTED CIRCUIT BOARD, PC-18
1311	3-465-159-XX	s	SPRING, TENSION (20T)
1312	3-563-104-00	s	SPRING, TENSION
1313	3-568-321-00	s	SPRING, TENSION
1314	3-578-389-00	s	SPRING, TENSION
1315	3-646-214-00	s	SPRING
1316	3-668-314-02	s	HOLDER, LAMP
1317	3-677-153-00	o	HOLDER
1318	3-677-154-00	o	PLATE, PREVENTION
1319	3-677-155-00	o	RETAINER, SPRING
1320	3-677-156-00	s	GEAR (R), DRIVING
1321	3-677-157-00	o	STOPPER (R), CASSETTE
1322	3-677-160-00	o	HINGE (LEFT)
1323	3-677-161-00	o	HINGE (RIGHT)
1324	3-677-165-03	s	GEAR, MIDWAY
1325	3-677-166-00	s	GEAR, JOINT
1326	3-677-167-00	o	BEARING
1327	3-677-168-00	o	JOINT
1328	3-677-171-00	s	LEVER (LEFT)
1329	3-677-172-00	o	LEVER (RIGHT)
1330	3-677-173-00	o	LEVER, DETECTION, CASSETTE
1331	3-677-174-00	o	LEVER, DETECTION, CASSETTE-DOWN
1332	3-677-175-00	o	BRACKET, IN SWITCH
1333	3-677-176-02	o	BRACKET, DOWN SWITCH
1334	3-677-177-00	s	ARM
1335	3-677-178-00	o	ROLLER, PRESS
1336	3-677-179-00	o	ARM, JOINT
1337	3-677-180-00	o	WIRE, PRESS
1338	3-677-181-00	o	REFLECTOR
1339	3-677-182-00	o	HOLDER, REFLECTOR
1340	3-677-184-00	o	JOINT (M)
1341	3-677-185-00	o	STOPPER (L), CASSETTE
1342	3-677-187-00	s	ROLLER, GUIDE
1343	3-677-193-00	o	PIN, STOPPER
1344	3-677-197-00	o	SPRING (LEFT)
1345	3-677-198-00	o	SPRING (R)
1346	3-677-199-03	s	GEAR
1347	3-677-704-03	s	LEVER
1348	3-677-706-00	s	ARM, DRIVING
1349	3-677-707-02	o	JOINT (R)
1350	3-677-708-00	o	JOINT (F)
1351	3-677-710-00	o	LID, CASSETTE
1352	3-677-711-00	s	GEAR (L), DRIVING
1353	3-677-726-00	o	SPRING
1354	3-677-748-00	o	COLLAR
1355	3-677-770-00	o	LEVER, SUB, DISCHARGE
1356	3-677-771-00	o	COLLAR, GUIDE ROLLER
1357	3-677-779-00	o	GUARD, HARNESS
1358	3-701-439-21	s	WASHER, POLY 3MM DIA. 0.5T

BVW-40 (UC/J)
BVW-40P (AEP)
BVW-40S (AE)

Ornamental Panel Block (1)

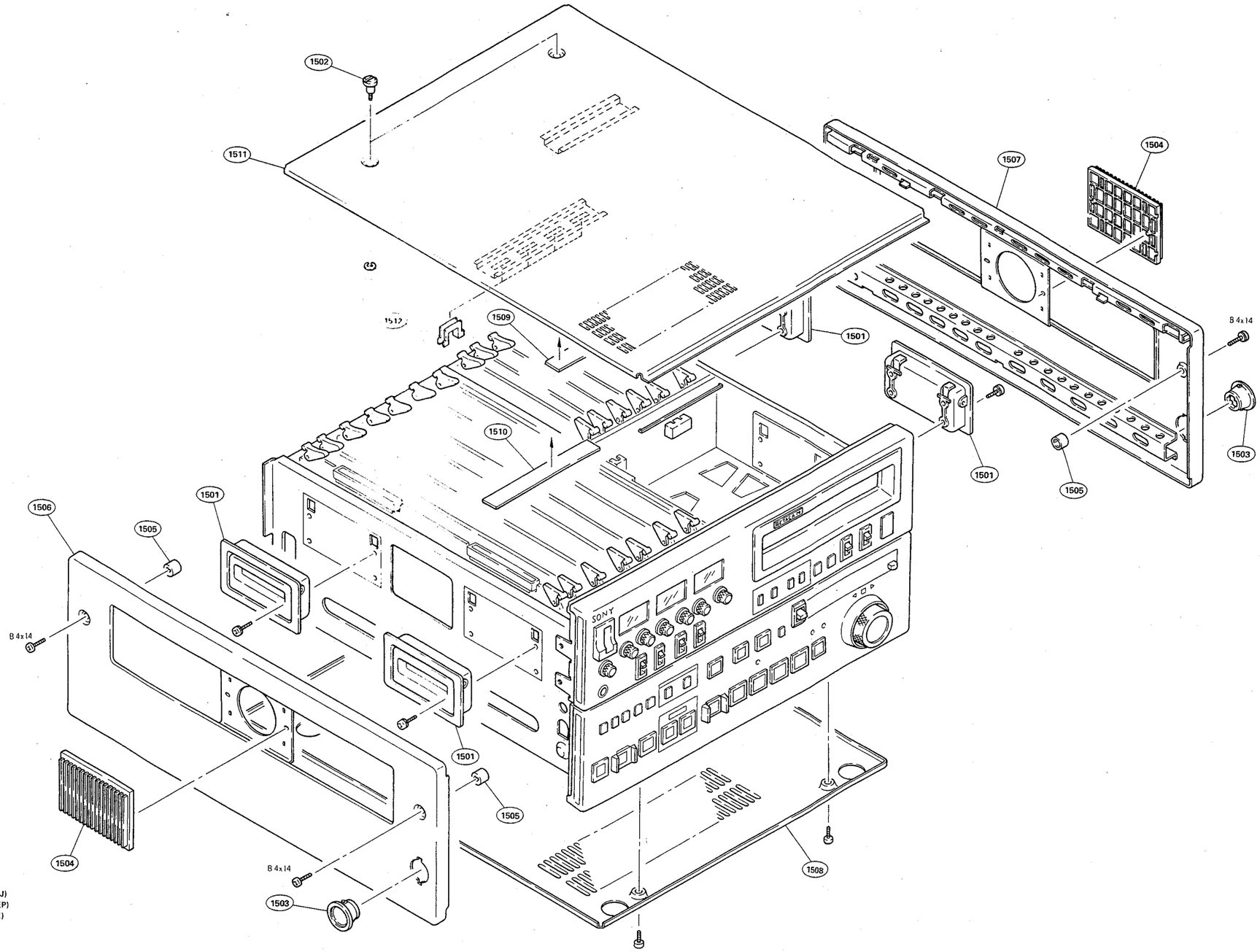




BVW-40 (UC/J)
BVW-40P (AEP)
BVW-40S (AE)

No.	Parts No.	SP	Description
1401	X-3683-504-0	s	KNOB ASSY, CONTROL
1402	X-3683-505-0	o	PANEL SUB ASSY, FRONT
1403	X-3683-506-0	o	PANEL SUB ASSY, KEY
1404	2-252-623-00	o	PLATE, SWITCH, LEVER
1405	3-657-986-00	o	GUARD, REC
1406	3-668-006-02	s	PUSH BUTTON (15 x 8)
1407	3-668-007-02	s	PUSH BUTTON (5 x 9)
1408	3-668-008-02	s	PUSH BUTTON (3 x 5)
1409	3-668-009-02	s	PIN, PUSH BUTTON
1410	3-668-012-00	s	RUBBER, DIAL KNOB
1411	3-668-013-00	s	KNOB, DIAL
1412	3-668-015-00	o	PLATE (SMALL), SWITCH, LEVER
1413	3-668-016-00	o	FRAME (SMALL), ORNAMENTAL
1414	3-668-017-02	o	FRAME (MIDDLE), BLIND, SWITCH
1415	3-668-018-00	o	FRAME (MIDDLE), ORNAMENTAL
1416	3-668-028-00	s	KNOB (SMALL), LEVER SWITCH
1417	3-675-891-00	o	ESCUTCHEON, BUTTON (LARGE)
1418	3-675-892-00	o	ESCUTCHEON, BUTTON (SMALL)
1419	3-683-629-41	o	LABEL, MODEL NAME
1420	3-683-501-00	o	ESCUTCHEON (9 SQUARE), BUTTON
1421	4-309-349-00	s	SPRING, COIL

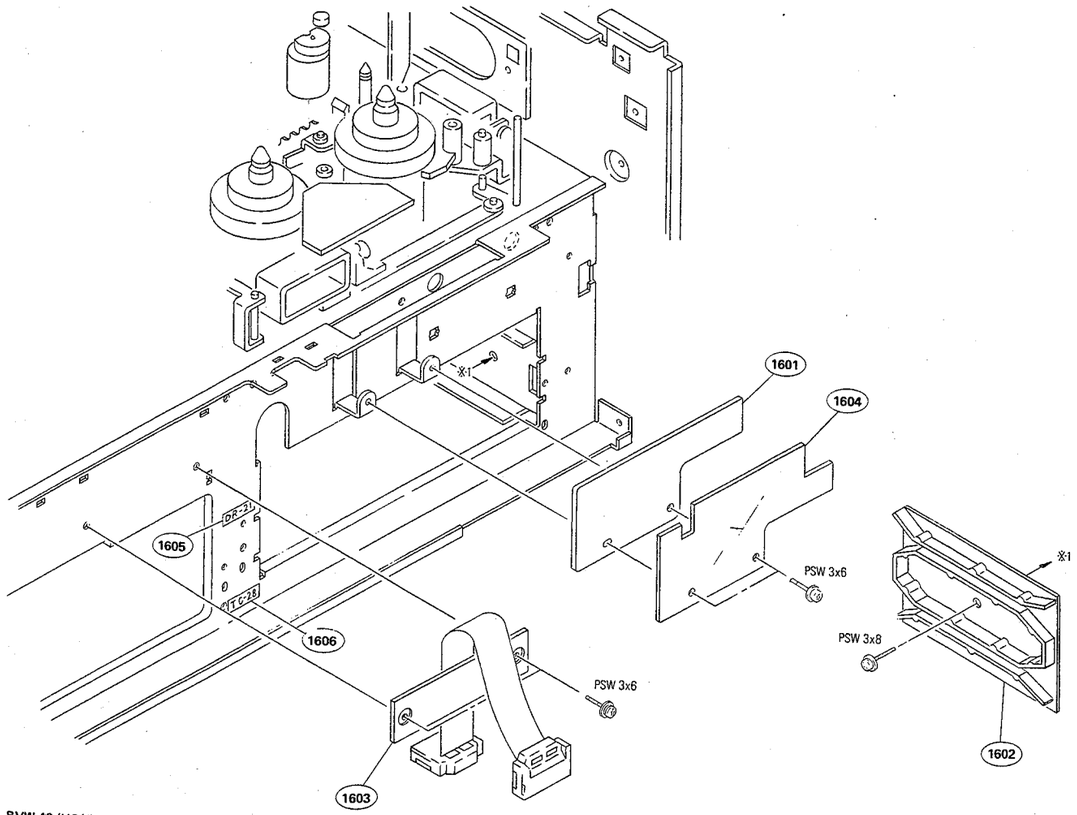
Ornamental Panel Block (2)



No.	Parts No.	SP	Description
1501	X-3642-018-0	s	HANDLE ASSY
1502	3-668-024-00	s	SCREW, COIN, CABINET
1503	3-668-025-05	o	ESCUTCHEON, HINGE STOPPER
1504	3-668-335-00	o	ORNAMENT, SIDE PLATE
1505	3-668-416-00	o	SPACER, BRACKET, M4
1506	3-668-418-04	o	PLATE, SIDE, LEFT
1507	3-668-419-04	o	PLATE, SIDE, RIGHT
1508	3-677-105-00	o	PLATE, BOTTOM
1509	3-683-588-01	o	RETAINER (S), PC
1510	3-683-589-01	o	RETAINER (L), PC
1511	3-683-590-03	o	LID, UPPER
1512	3-677-781-00	o	COVER,INSULATING UC:S/N 11071 AND LATER J :S/N 10526 AND LATER P :S/N 10791 AND LATER S :S/N 10011 AND LATER

BVW-40 (UC/J)
BVW-40P (AEP)
BVW-40S (AE)

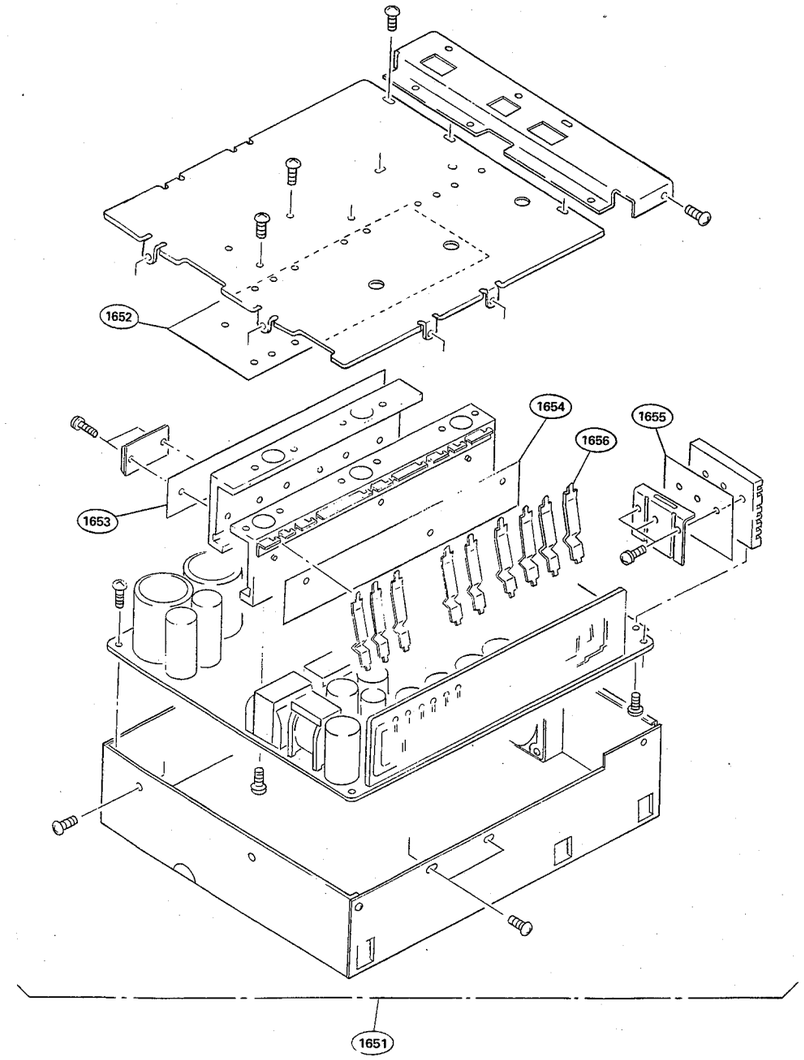
Printed Circuit Board Block (1)



BVW-40 (UC/J)
BVW-40P (AEP)
BVW-40S (AE)

No.	Parts No.	SP	Description
1601	A-6715-211-A	o	MOUNTED CIRCUIT BOARD, DU-53
1602	3-668-134-00	o	GUIDE (2), PC BOARD
1603	3-668-424-00	o	RETAINER (REAR), FC
1604	3-683-507-00	o	PROTECTOR, DU
1605	3-683-527-00	o	LABEL (3), PC BOARD
1606	3-683-528-00	o	LABEL (4), PC BOARD

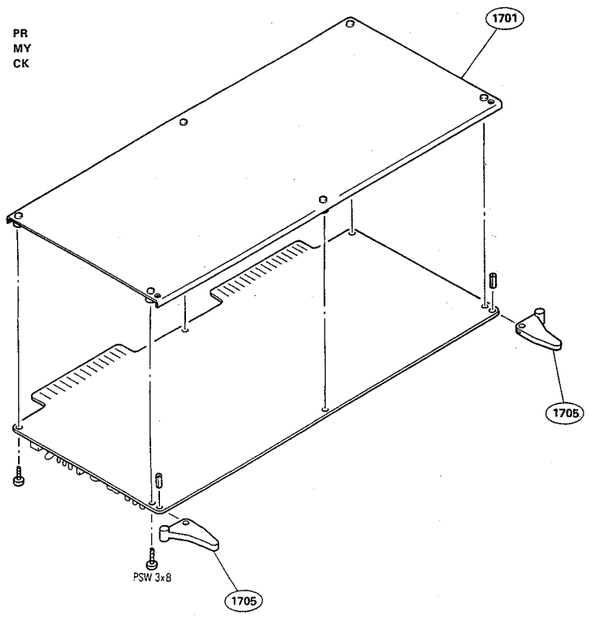
SWITCHING REGULATOR (UR-09)



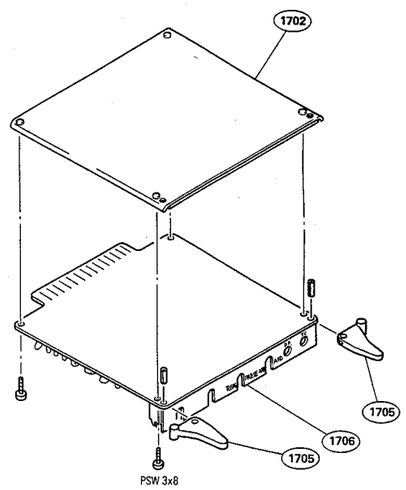
No.	Parts No.	SP	Description
⚠ 1651	1-413-166-11	s	SWITCHING REGURATOR
1652	2-430-365-01	s	SILICON RUBBER
1653	2-430-366-01	s	THERCON
1654	2-430-367-01	s	SILICON RUBBER
1655	2-430-368-01	s	THERCON
1656	2-434-074-01	s	HOLDER

Printed Circuit Board Block (2)

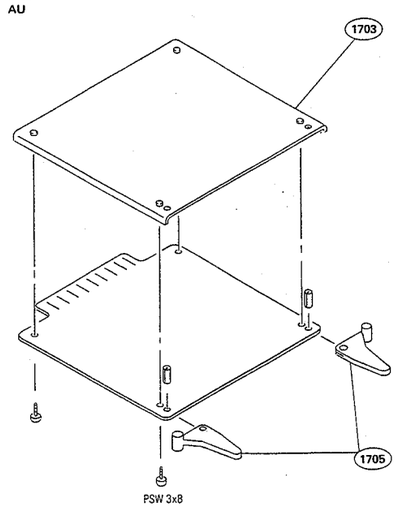
PR
MY
CK



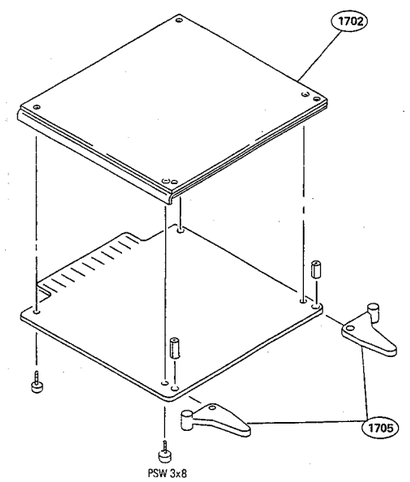
TC-28



CC
DEC
AU

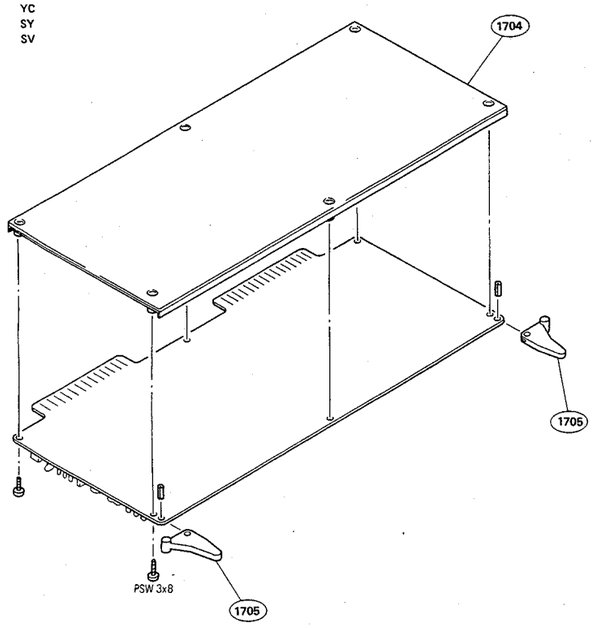


DR-21



BVW-40 (UC/J)
BVW-40P (AEP)
BVW-40S (AE)

EN
YC
SY
SV



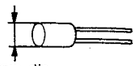
No.	Parts No.	SP	Description
1701	X-3675-813-0	o	PLATE ASSY, SHIELD, L
1702	X-3683-510-1	o	PLATE (LOWER) ASSY, SHIELD, S
1703	X-3683-511-1	o	PLATE (UPPER) ASSY, SHIELD, S
1704	X-3683-512-1	o	PLATE (LARGE) ASSY, SHIELD, L
1705	2-251-622-00	o	LEVER, PC BOARD
1706	3-683-579-11	o	PLATE, INDICATION, TC

19-3. ELECTRICAL PARTS LIST

Parts that are not listed in the "reference numbers order list" are shown in following table.
Reference numbers are omitted.

MICRO INDUCTOR

1 μH through 470 μH
±5%



Parts No. 1-407-□□□-XX

Value	Parts No. -□□□-	Value	Parts No. -□□□-	Value	Parts No. -□□□-	Value	Parts No. -□□□-
1 μH	178	4.7 μH	186	22 μH	161	100 μH	169
1.2	179	5.6	187	27	162	120	170
1.5	180	6.8	188	33	163	150	171
1.8	181	8.2	189	39	164	180	172
2.2	182	10	157	47	165	220	173
2.7	183	12	158	56	166	270	174
3.3	184	15	159	68	167	330	175
3.9	185	18	160	82	168	390	176
						470	177

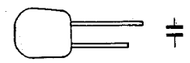
MICRO INDUCTOR

1 μH through 470 μH
±5%

Parts No. 1-408-□□□-□□

Value	Parts No. -□□□-	Value	Parts No. -□□□-	Value	Parts No. -□□□-	Value	Parts No. -□□□-
1 μH	397	4.7 μH	405	22 μH	413	100 μH	421
1.2	398	5.6	406	27	414	120	422
1.5	399	6.8	407	33	415	150	423
1.8	400	8.2	408	39	416	180	424
2.2	401	10	409	47	417	220	425
2.7	402	12	410	56	418	270	426
3.3	403	15	411	68	419	330	427
3.9	404	18	412	82	420	390	428
						470	429

SILVERED MICA CAPACITOR

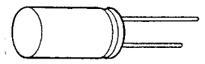


1 pF through 620 pF
±5%, 50WV

Parts No. 1-107-□□□-00

Value	Parts No. -□□□-	Value	Parts No. -□□□-	Value	Parts No. -□□□-	Value	Parts No. -□□□-
1 pF	098	15 pF	065	51 pF	078	180 pF	091
2	099	16	066	56	079	200	092
3	100	18	067	62	080	220	093
4	101	20	068	68	081	240	094
5	102	22	069	75	082	270	095
6	103	24	070	82	083	300	096
7	104	27	071	91	084	330	097
8	105	30	072	100	085	360	231
9	106	33	073	110	086	390	232
10	061	36	074	120	087	430	233
11	062	39	075	130	088	470	234
12	063	43	076	150	089	510	235
13	064	47	077	160	090	560	236
						620	237

ELECTROLYTIC CAPACITOR

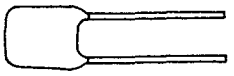


0.47μF through 470μF
6.3WV through 50 (63, 100)WV

Parts No. 1-123-□□□-00

Value	Parts No. -□□□-	Value	Parts No. -□□□-	Value	Parts No. -□□□-
0.47μF 50V		22μF 35V	342	100μF 50V	360
100	379	50		220 6.3	
1 50		63	371	10	308
100	380	33 6.3		16	321
2.2 50		10		25	334
100	381	16	318	35	346
3.3 25		25		50	361
35		35	343	330 6.3	
50		50		10	309
100	382	63	372	16	322
4.7 25		47 6.3		25	335
35		10	306	35	347
50		16		50	362
63	369	25	332	470 6.3	298
10 10		35		10	310
16		50	359	16	323
25		100 6.3		25	336
35		10	307	35	348
50	356	16		50	
22 16		25	333	63	377
25	330	35	345		

MYLAR CAPACITOR



0.00047μF through 0.22μF
±5% 50WV

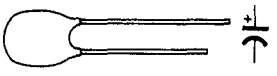
Parts No. 1-130-□□□-00

Value	Parts No. −□□□−
0.00047μF	467
0.00056	468
0.00068	469
0.00082	470
0.001	471
0.0012	472
0.0015	473
0.0018	474
0.0022	475
0.0027	476
0.0033	477

Value	Parts No. −□□□−
0.0039μF	478
0.0047	479
0.0056	480
0.0068	481
0.0082	482
0.01	483
0.012	484
0.015	485
0.018	486
0.022	487
0.027	488

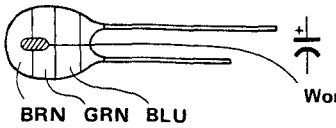
Value	Parts No. −□□□−
0.033μF	489
0.039	490
0.047	491
0.056	492
0.068	493
0.082	494
0.1	495
0.12	496
0.15	497
0.18	498
0.22	499

TANTALUM CAPACITOR



0.01μF through 100μF ± 10%
3.15V through 35V

NOTE: The value of the parts that are marked by * in the below table are indicated by color code. (to the value with ±20%)



Working Voltage Color Code

Ex. BRN GRN BLU
1 5 6
15×10^6 pF = 15μF

BLK	RED	YEL	GRN	BLU	GRY	WHT
10V	35	6.3	16	20	25	3.15

Parts No. 1-131-□□□-00

Value		Parts No. −□□□−
0.01μ	35V	*396
0.015	35	*397
0.022	35	*398
0.033	35	*399
0.047	35	*400
0.068	35	*401
0.1	35	341
0.15	35	342
0.22	35	343
0.33	25	*409
	35	344
0.47	20	*412
	35	345
0.68	16	*415
	25	*410
	35	346
1.0	10	*418
	25	498

Value		Parts No. −□□□−
1.0μ	35V	347
1.5	6.3	*421
	20	499
	25	354
	35	348
2.2	3.15	*424
	16	500
	20	361
	25	355
	35	349
3.3	10	501
	16	368
	20	362
	25	356
	35	350
4.7	6.3	502
	10	375
	16	369

Value		Parts No. −□□□−
4.7μ	20V	363
	25	357
	35	351
6.8	3.15	503
	6.3	382
	10	376
	16	370
	20	364
	25	358
	35	352
10	3.15	389
	6.3	383
	10	377
	16	371
	20	365
	25	359
	35	353
15	3.15	390
	6.3	384

Value		Parts No. −□□□−
15μ	10V	378
	16	372
	20	366
	25	360
22	3.15	391
	6.3	385
	10	379
	16	373
	20	367
33	3.15	392
	6.3	386
	10	380
	16	374
47	3.15	393
	6.3	387
	10	381
68	3.15	394
	6.3	388
100	3.15	395

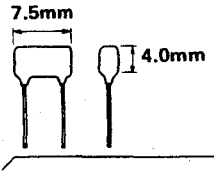
CERAMIC CAPACITOR 0.001μF through 0.1μF
50WV

Parts NO. 1-161-□□□-00

Value	Parts No. -□□□-	Substitute
0.001 μF	039	(1-102-074-00)
0.0012	040	
0.0015	041	
0.0018	042	
0.0022	043	(1-102-100-00)
0.0027	044	
0.0033	045	
0.0039	046	(1-102-124-00)
0.0047	047	
0.0056	048	
0.0068	049	
0.0082	050	

Value	Parts No. -□□□-	Substitute
0.01 μF	051	(1-101-118-00)
0.012	052	
0.015	053	
0.018	054	
0.022	055	(1-101-005-00)
0.027	056	
0.033	057	
0.039	058	
0.047	059	(1-101-006-00)
0.056	060	
0.068	061	
0.082	062	
0.1	063	

METAL FILM RESISTOR ± 1%, 1/4W
10Ω through 100kΩ



Parts No. 1-214-□□□-00

Value	Parts No. -□□□-
10Ω	084
11	085
12	086
13	087
15	088
16	089
18	090
20	091
22	092
24	093
27	094
30	095
33	096
36	097
39	098
43	099
47	100
51	101
56	102
62	103
68	104
75	105
82	106
91	107

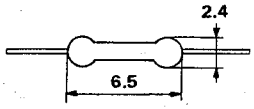
Value	Parts No. -□□□-
100Ω	108
110	109
120	110
130	111
150	112
160	113
180	114
200	115
220	116
240	117
270	118
300	119
330	120
360	121
390	122
430	123
470	124
510	125
560	126
620	127
680	128
750	129
820	130
910	131

Value	Parts No. -□□□-
1.0kΩ	132
1.1	133
1.2	134
1.3	135
1.5	136
1.6	137
1.8	138
2.0	139
2.2	140
2.4	141
2.7	142
3.0	143
3.3	144
3.6	145
3.9	146
4.3	147
4.7	148
5.1	149
5.6	150
6.2	151
6.8	152
7.5	153
8.2	154
9.1	155

Value	Parts No. -□□□-
10kΩ	156
11	157
12	158
13	159
15	160
16	161
18	162
20	163
22	164
24	165
27	166
30	167
33	168
36	169
39	170
43	171
47	172
51	173
56	174
62	175
68	176
75	177
82	178
91	179
100	180

CARBON RESISTOR (1/4W)

±5%, 1/4W, non-special type
1 Ω through 1 MΩ



Parts No. 1-246-□□□-00

Value	Parts No. -□□□-
1 Ω	401
1.1	402
1.2	403
1.3	404
1.5	405
1.6	406
1.8	407
2	408
2.2	409
2.4	410
2.7	411
3	412
3.3	413
3.6	414
3.9	415
4.3	416
4.7	417
5.1	418
5.6	419
6.2	420
6.8	421
7.5	422
8.2	423
9.1	424
10 Ω	425
11	426
12	427
13	428
15	429
16	430
18	431
20	432
22	433
24	434
27	435
30	436

Value	Parts No. -□□□-
33 Ω	437
36	438
39	439
43	440
47	441
51	442
56	443
62	444
68	445
75	446
82	447
91	448
100 Ω	449
110	450
120	451
130	452
150	453
160	454
180	455
200	456
220	457
240	458
270	459
300	460
330	461
360	462
390	463
430	464
470	465
510	466
560	467
620	468
680	469
750	470
820	471
910	472

Value	Parts No. -□□□-
1 kΩ	473
1.1	474
1.2	475
1.3	476
1.5	477
1.6	478
1.8	479
2	480
2.2	481
2.4	482
2.7	483
3.0	484
3.3	485
3.6	486
3.9	487
4.3	488
4.7	489
5.1	490
5.6	491
6.2	492
6.8	493
7.5	494
8.2	495
9.1	496
10 kΩ	497
11	498
12	499
13	500
15	501
16	502
18	503
20	504
22	505
24	506
27	507
30	508

Value	Parts No. -□□□-
33 kΩ	509
36	510
39	511
43	512
47	513
51	514
56	515
62	516
68	517
75	518
82	519
91	520
100 kΩ	521
110	522
120	523
130	524
150	525
160	526
180	527
200	528
220	529
240	530
270	531
300	532
330	533
360	534
390	535
430	536
470	537
510	538
560	539
620	540
680	541
750	542
820	543
910	544
1 MΩ	545

CARBON RESISTOR (1/8W)

±5%, 1/8W, non-special type
2.2Ω through 1MΩ

Parts No. 1-246-□□□-00

Value	Parts No. -□□□-
1Ω	–
1.1	–
1.2	–
1.3	–
1.5	–
1.6	–
1.8	–
2	–
2.2	751
2.4	812
2.7	752
3	813
3.3	753
3.6	814
3.9	754
4.3	815
4.7	755
5.1	816
5.6	756
6.2	817
6.8	757
7.5	818
8.2	758
9.1	819
10Ω	759
11	820
12	760
13	821
15	761
16	822
18	762
20	823
22	763
24	824
27	764
30	825

Value	Parts No. -□□□-
33Ω	765
36	826
39	766
43	827
47	767
51	828
56	768
62	829
68	769
75	830
82	770
91	831
100Ω	771
110	832
120	772
130	833
150	773
160	834
180	774
200	835
220	775
240	836
270	776
300	837
330	777
360	838
390	778
430	839
470	779
510	840
560	780
620	841
680	781
750	842
820	782
910	843

Value	Parts No. -□□□-
1kΩ	783
1.1	844
1.2	784
1.3	845
1.5	785
1.6	846
1.8	786
2	847
2.2	787
2.4	848
2.7	788
3.0	849
3.3	789
3.6	850
3.9	790
4.3	851
4.7	791
5.1	852
5.6	792
6.2	853
6.8	793
7.5	854
8.2	794
9.1	855
10kΩ	795
11	856
12	796
13	857
15	797
16	858
18	798
20	859
22	799
24	860
27	800
30	861

Value	Parts No. -□□□-
33kΩ	801
36	862
39	802
43	863
47	803
51	864
56	804
62	865
68	805
75	866
82	806
91	867
100kΩ	807
110	868
120	808
130	869
150	809
160	870
180	810
200	871
220	811

Parts No. 1-247-□□□-00

Value	Parts No. -□□□-
240kΩ	054
270	046
300	055
330	047
360	056
390	048
430	057
470	049
510	058
560	050
620	059
680	051
750	060
820	052
910	061
1MΩ	053

CARBON RESISTOR (1/6W)

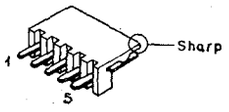
±5%, 1/6W, non-special type
2.2Ω through 1MΩ

Parts No. 1-247-□□□-00

Value	Parts No. −□□□−	Value	Parts No. −□□□−	Value	Parts No. −□□□−	Value	Parts No. −□□□−
1Ω	–	36Ω	796	1.2kΩ	833	43kΩ	870
1.1	–	39	797	1.3	834	47	871
1.2	–	43	798	1.5	835	51	872
1.3	–	47	799	1.6	836	56	873
1.5	–	51	800	1.8	837	62	874
1.6	–	56	801	2	838	68	875
1.8	–	62	802	2.2	839	75	876
2	–	68	803	2.4	840	82	877
2.2	767	75	804	2.7	841	91	878
2.4	768	82	805	3	842	100kΩ	879
2.7	769	91	806	3.3	843	110	880
3	770	100Ω	807	3.6	844	120	881
3.3	771	110	808	3.9	845	130	882
3.6	772	120	809	4.3	846	150	883
3.9	773	130	810	4.7	847	160	884
4.3	774	150	811	5.1	848	180	885
4.7	775	160	812	5.6	849	200	886
5.1	776	180	813	6.2	850	220	887
5.6	777	200	814	6.8	851	240	888
6.2	778	220	815	7.5	852	270	889
6.8	779	240	816	8.2	853	300	890
7.5	780	270	817	9.1	854	330	891
8.2	781	300	818	10kΩ	855	360	892
9.1	782	330	819	11	856	390	893
10Ω	783	360	820	12	857	430	894
11	784	390	821	13	858	470	895
12	785	430	822	15	859	510	896
13	786	470	823	16	860	560	897
15	787	510	824	18	861	620	898
16	788	560	825	20	862	680	899
18	789	620	826	22	863	750	900
20	790	680	827	24	864	820	901
22	791	750	828	27	865	910	902
24	792	820	829	30	866	1MΩ	903
27	793	910	830	33	867		
30	794	1kΩ	831	36	868		
33	795	1.1	832	39	869		

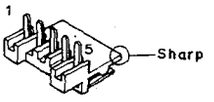
CONNECTOR

top-type receptacle



2P	1-508-900-00
3P	1-508-901-00
4P	1-508-902-00
5P	1-508-903-00
6P	1-508-904-00
8P	1-508-905-00
10P	1-508-906-00
12P	1-508-949-00

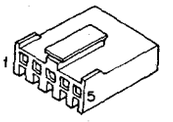
side-type receptacle



2P	1-508-933-00
3P	1-508-934-00
4P	1-508-950-00
5P	1-508-935-00
6P	1-508-936-00
8P	1-508-937-00
10P	1-508-951-00
12P	1-508-997-00

plug

housing



2P	1-509-983-00
3P	1-509-984-00
4P	1-509-985-00
5P	1-509-986-00
6P	1-509-987-00
8P	1-509-988-00
10P	1-509-989-00
12P	1-561-056-00

contact

1-509-982-00

ABBREVIATIONS

Ref. No.	Description
C□□, CV□□	CAPACITOR
CN□□	CONNECTOR
D□□	DIODE
DL□□	DELAY LINE
DM□□	DME
F□□	FUSE
FB□□	FERRITE BEAD
FL□□	FILTER

Ref. No.	Description
H□□	HEAD
IC□□	IC
J□□	JACK
L□□	INDUCTOR
M□□	MOTOR
PL□□	LAMP
PH□□	PHOTO INTERRUPTER
PM□□	SOLENOID

Ref. No.	Description
Q□□	TRANSISTOR
R□□, RV□□	RESISTOR
S□□, SW□□	SWITCH
T□□	TRANSFORMER
TH□□	THERMISTOR
X□□	CRYSTAL

All capacitors are in micro farads unless otherwise specified.

All inductors are in micro henries unless otherwise specified.

All resistors are in ohms.

Ref.No.	Parts No.	SP	Description
AC-44 BOARD			
	1-533-037-XX	s	HOLDER,FUSE
	1-611-540-00	o	PRINTED CIRCUIT BOARD,AC-44
⚠ C1	1-130-917-00	s	FILM 0.1 20% 250V
⚠ CN1	1-560-033-00	o	RECEPTACLE,3P
	1-561-218-00	o	HOUSING,3P
	1-561-254-00	o	CONTACT
⚠ F1	1-532-325-00	s	T6.3A 250V
⚠ L1	1-421-395-00	s	LINE FILTER
AU-45 BOARD			
	A-6713-187-A	o	MOUNTED CIRCUIT BOARD,AU-45
C101	1-124-186-00	s	ELECT 10 20% 50V
C102	1-124-186-00	s	ELECT 10 20% 50V
C104	1-124-186-00	s	ELECT 10 20% 50V
C105	1-107-210-00	s	MICA 22PF 5% 500V
C116	1-131-342-00	s	ELECT 0.15 10% 25V
C133	1-107-210-00	s	MICA 22PF 5% 500V
C141	1-107-210-00	s	MICA 22PF 5% 500V
C143	1-107-208-00	s	MICA 18PF 5% 500V
C201	1-124-186-00	s	ELECT 10 20% 50V
C202	1-124-186-00	s	ELECT 10 20% 50V
C204	1-124-186-00	s	ELECT 10 20% 50V
C205	1-107-210-00	s	MICA 22PF 5% 500V
C216	1-131-342-00	s	ELECT 0.15 10% 25V
C233	1-107-210-00	s	MICA 22PF 5% 500V
C243	1-107-208-00	s	MICA 18PF 5% 500V
C506	1-131-344-00	s	ELECT 0.33 10% 25V
C507	1-131-344-00	s	ELECT 0.33 10% 25V
C513	1-131-344-00	s	ELECT 0.33 10% 25V
C514	1-131-344-00	s	ELECT 0.33 10% 25V
D101	8-719-815-55	s	1S1555
D102	8-719-200-02	s	10E-2
D103	8-719-162-07	s	RD6.2E-B
D104	8-719-815-55	s	1S1555
D105	8-719-815-55	s	1S1555
D106	8-719-815-55	s	1S1555
D107	8-719-815-55	s	1S1555
D108	8-719-815-55	s	1S1555
D109	8-719-815-55	s	1S1555
D110	8-719-200-02	s	10E-2
D201	8-719-815-55	s	1S1555
D202	8-719-200-02	s	10E-2
D203	8-719-162-07	s	RD6.2E-B
D204	8-719-815-55	s	1S1555
D205	8-719-815-55	s	1S1555
D206	8-719-815-55	s	1S1555
D207	8-719-815-55	s	1S1555
D208	8-719-815-55	s	1S1555
D209	8-719-815-55	s	1S1555

Ref.No.	Parts No.	SP	Description
IC101	8-759-700-04	s	NJM2043D-D(JRC)
IC102	8-741-134-32	s	BX1343A(SONY)
IC103	8-741-134-32	s	BX1343A(SONY)
IC104	8-741-115-20	s	BX1152(SONY)
IC105	8-759-745-61	s	NJM4560D-D(JRC)
IC106	8-759-745-61	s	NJM4560D-D(JRC)
IC107	8-759-700-04	s	NJM2043D-D(JRC)
IC201	8-759-700-04	s	NJM2043D-D(JRC)
IC202	8-741-134-32	s	BX1343A(SONY)
IC203	8-741-134-32	s	BX1343A(SONY)
IC204	8-741-115-20	s	BX1152(SONY)
IC205	8-759-745-61	s	NJM4560D-D(JRC)
IC206	8-759-745-61	s	NJM4560D-D(JRC)
IC502	8-759-178-05	s	uPC78L05(NEC)
IC504	8-759-179-05	s	uPC7905H(NEC)
LV101	1-459-434-00	s	VAR,22mH
LV102	1-459-411-00	s	VAR,18mH
LV201	1-459-434-00	s	VAR,22mH
LV202	1-459-411-00	s	VAR,18mH
Q101	8-720-002-97	s	TX429D-7
Q102	8-720-002-97	s	TX429D-7
Q103	8-729-201-05	s	2SC2878-B
Q104	8-720-002-97	s	TX429D-7
Q105	8-720-002-97	s	TX429D-7
Q106	8-729-663-48	s	2SC1364-8
Q107	8-729-663-48	s	2SC1364-8
Q108	8-729-663-48	s	2SC1364-8
Q109	8-729-663-48	s	2SC1364-8
Q110	8-729-173-37	s	2SA733-P
Q111	8-729-663-48	s	2SC1364-8
Q112	8-729-173-37	s	2SA733-P
Q113	8-729-663-48	s	2SC1364-8
Q114	8-729-173-37	s	2SA733-P
Q115	8-729-663-48	s	2SC1364-8
Q116	8-729-173-37	s	2SA733-P
Q117	8-729-201-05	s	2SC2878-B
Q118	8-729-201-05	s	2SC2878-B
Q201	8-720-002-97	s	TX429D-7
Q202	8-720-002-97	s	TX429D-7
Q203	8-729-201-05	s	2SC2878-B
Q204	8-720-002-97	s	TX429D-7
Q205	8-720-002-97	s	TX429D-7
Q206	8-729-663-48	s	2SC1364-8
Q207	8-729-663-48	s	2SC1364-8
Q208	8-729-663-48	s	2SC1364-8
Q209	8-729-663-48	s	2SC1364-8
Q210	8-729-173-37	s	2SA733-P
Q211	8-729-663-48	s	2SC1364-8
Q212	8-729-173-37	s	2SA733-P
Q213	8-729-663-48	s	2SC1364-8
Q214	8-729-173-37	s	2SA733-P
Q215	8-729-663-48	s	2SC1364-8
Q216	8-729-173-37	s	2SA733-P
Q217	8-729-201-05	s	2SC2878-B
Q501	8-729-177-32	s	2SD773
Q503	8-729-113-32	s	2SB733
RV101	1-228-308-00	s	VAR,CERMET 10K
RV102	1-228-307-00	s	VAR,CERMET 5K
RV103	1-228-309-00	s	VAR,CERMET 20K
RV104	1-228-310-00	s	VAR,CERMET 50K
RV201	1-228-308-00	s	VAR,CERMET 10K

Ref.No.	Parts No.	SP	Description
RV202	1-228-307-00	s	VAR,CERMET 5K
RV203	1-228-309-00	s	VAR,CERMET 20K
RV204	1-228-310-00	s	VAR,CERMET 50K

AU-46 BOARD

	A-6713-188-A	o	MOUNTED CIRCUIT BOARD,AU-46
C109	1-108-583-00	s	MYLAR 0.015 5% 50V
C110	1-107-210-00	s	MICA 22PF 5% 500V
C113	1-108-595-00	s	MYLAR 0.047 5% 50V
C114	1-124-186-00	s	ELECT 10 20% 50V
C115	1-108-569-00	s	MYLAR 0.0039 5% 50V
C117	1-108-595-00	s	MYLAR 0.047 5% 50V
C119	1-108-595-00	s	MYLAR 0.047 5% 50V
C124	1-108-567-00	s	MYLAR 0.0033 5% 50V
C129	1-108-565-00	s	MYLAR 0.0027 5% 50V
C130	1-108-603-00	s	MYLAR 0.1 5% 50V
C131	1-108-585-00	s	MYLAR 0.018 5% 50V
C133	1-107-179-00	s	MICA 270PF 5% 500V
C136	1-108-579-00	s	FILM 0.01 5% 50V
C209	1-108-583-00	s	MYLAR 0.015 5% 50V
C210	1-107-210-00	s	MICA 22PF 5% 500V
C213	1-108-595-00	s	MYLAR 0.047 5% 50V
C214	1-124-186-00	s	ELECT 10 20% 50V
C215	1-108-569-00	s	MYLAR 0.0039 5% 50V
C218	1-108-595-00	s	MYLAR 0.047 5% 50V
C220	1-108-595-00	s	MYLAR 0.047 5% 50V
C224	1-108-567-00	s	MYLAR 0.0033 5% 50V
C229	1-108-565-00	s	MYLAR 0.0027 5% 50V
C230	1-108-603-00	s	MYLAR 0.1 5% 50V
C231	1-108-585-00	s	MYLAR 0.018 5% 50V
C233	1-107-179-00	s	MICA 270PF 5% 500V
C236	1-108-579-00	s	FILM 0.01 5% 50V
C301	1-130-338-00	s	FILM 0.01 5% 630V
C305	1-108-591-00	s	MYLAR 0.033 5% 50V
C306	1-108-579-00	s	MYLAR 0.01 5% 50V
C307	1-108-579-00	s	MYLAR 0.01 5% 50V
C309	1-108-595-00	s	MYLAR 0.047 5% 50V
C312	1-108-579-00	s	MYLAR 0.01 5% 50V
C314	1-130-336-00	s	FILM 0.0068 5% 630V
C315	1-107-169-00	s	MICA 100PF 5% 500V
C318	1-108-579-00	s	MYLAR 0.01 5% 50V
C320	1-130-336-00	s	FILM 0.0068 5% 630V
C321	1-107-169-00	s	MICA 100PF 5% 500V
C323	1-108-579-00	s	MYLAR 0.01 5% 50V
C324	1-123-819-00	s	ELECT 33 20% 25V
C325	1-130-062-00	s	FILM 0.0056 5% 630V
C327	1-108-579-00	s	MYLAR 0.01 5% 50V
C329	1-130-062-00	s	FILM 0.0056 5% 630V
C331	1-108-579-00	s	MYLAR 0.01 5% 50V
C333	1-130-062-00	s	FILM 0.0056 5% 630V
C336	1-108-595-00	s	MYLAR 0.047 5% 50V
C337	1-108-595-00	s	MYLAR 0.047 5% 50V
C338	1-108-599-00	s	MYLAR 0.068 5% 50V
C341	1-108-595-00	s	MYLAR 0.047 5% 50V
C342	1-108-595-00	s	MYLAR 0.047 5% 50V
C343	1-108-599-00	s	MYLAR 0.068 5% 50V
C346	1-108-595-00	s	MYLAR 0.047 5% 50V
C347	1-108-595-00	s	MYLAR 0.047 5% 50V
C348	1-108-599-00	s	MYLAR 0.068 5% 50V
C351	1-108-595-00	s	MYLAR 0.047 5% 50V

Ref.No.	Parts No.	SP	Description
D101	8-719-911-19	s	1SS119
D102	8-719-911-19	s	1SS119
D103	8-719-911-19	s	1SS119
D104	8-719-168-07	s	RD6.8E-B
D105	8-719-911-19	s	1SS119
D201	8-719-911-19	s	1SS119
D202	8-719-911-19	s	1SS119
D203	8-719-911-19	s	1SS119
D204	8-719-168-07	s	RD6.8E-B
D205	8-719-911-19	s	1SS119
D301	8-719-911-19	s	1SS119
D302	8-719-911-19	s	1SS119
D303	8-719-911-19	s	1SS119
D304	8-719-911-19	s	1SS119
D305	8-719-911-19	s	1SS119
IC101	8-759-705-62	s	NJM4562D-D(JRC)
IC102	8-759-700-04	s	NJM2043D-D(JRC)
IC201	8-759-705-62	s	NJM4562D-D(JRC)
IC202	8-759-700-04	s	NJM2043D-D(JRC)
L301	1-459-155-00	s	45
LV101	1-407-304-00	s	VAR,18mH
LV102	1-407-304-00	s	VAR,18mH
LV103	1-407-297-00	s	VAR,3.5mH
LV104	1-407-304-00	s	VAR,18mH
LV201	1-407-304-00	s	VAR,18mH
LV202	1-407-304-00	s	VAR,18mH
LV203	1-407-297-00	s	VAR,3.5mH
LV204	1-407-304-00	s	VAR,18mH
LV301	1-407-285-00	s	VAR,1.5mH
LV302	1-407-284-00	s	VAR,1mH
LV303	1-407-284-00	s	VAR,1mH
LV304	1-407-284-00	s	VAR,1mH
LV305	1-407-284-00	s	VAR,1mH
LV306	1-407-284-00	s	VAR,1mH
Q101	8-729-173-37	s	2SA733-P
Q102	8-729-663-48	s	2SC1364-8
Q103	8-729-663-48	s	2SC1364-8
Q104	8-729-201-05	s	2SC2878-B
Q105	8-729-240-01	s	2SK240
Q106	8-729-629-12	s	2SC2291
Q107	8-729-173-37	s	2SA733-P
Q108	8-729-663-48	s	2SC1364-8
Q109	8-769-193-09	s	2SK43-3
Q110	8-729-633-48	s	2SC1364-8
Q111	8-729-201-05	s	2SC2878-B
Q112	8-729-173-37	s	2SA733-P
Q201	8-729-173-37	s	2SA733-P
Q202	8-729-663-48	s	2SC1364-8
Q203	8-729-663-48	s	2SC1364-8
Q204	8-729-201-05	s	2SC2878-B
Q205	8-729-240-01	s	2SK240
Q206	8-729-629-12	s	2SC2291
Q207	8-729-173-37	s	2SA733-P
Q208	8-729-663-48	s	2SC1364-8
Q209	8-769-193-09	s	2SK43-3
Q210	8-729-663-48	s	2SC1364-8
Q211	8-729-201-05	s	2SC2878-B
Q212	8-729-173-37	s	2SA733-P
Q213	8-729-173-37	s	2SA733-P

Ref.No.	Parts No.	SP	Description
Q301	8-729-173-37	s	2SA733-P
Q302	8-729-177-43	s	2SD774
Q303	8-729-177-43	s	2SD774
Q304	8-729-177-43	s	2SD774
Q305	8-729-173-37	s	2SA733-P
Q306	8-729-177-43	s	2SD774
Q307	8-729-177-43	s	2SD774
Q308	8-729-173-37	s	2SA733-P
Q309	8-729-173-37	s	2SA733-P
Q310	8-729-177-43	s	2SD774
Q311	8-729-177-43	s	2SD774
Q312	8-729-177-43	s	2SD774
Q313	8-729-173-37	s	2SA733-P
Q314	8-729-177-43	s	2SD774
Q315	8-729-177-43	s	2SD774
Q316	8-729-177-43	s	2SD774
Q317	8-729-173-37	s	2SA733-P
Q318	8-729-177-43	s	2SD774
Q319	8-729-177-43	s	2SD774
Q320	8-729-177-43	s	2SD774
Q321	8-729-173-37	s	2SA733-P
Q322	8-729-177-43	s	2SD774
Q323	8-729-177-43	s	2SD774
Q324	8-729-177-43	s	2SD774
Q325	8-729-173-37	s	2SA733-P
Q326	8-729-177-43	s	2SD774
Q327	8-729-177-43	s	2SD774
Q328	8-729-177-43	s	2SD774
Q329	8-729-173-37	s	2SA733-P
Q330	8-729-201-05	s	2SC2878-B
Q331	8-729-201-05	s	2SC2878-B
Q332	8-729-173-37	s	2SA733-P
Q333	8-729-201-05	s	2SC2878-B
Q334	8-729-201-05	s	2SC2878-B
Q335	8-729-173-37	s	2SA733-P
Q336	8-729-201-05	s	2SC2878-B
Q337	8-729-201-05	s	2SC2878-B
R118	1-212-706-00	s	METAL 150K 1% 1/2W
R218	1-212-706-00	s	METAL 150K 1% 1/2W
R311	1-244-825-00	s	CARBON 10 5% 1/2W
R329	1-244-825-00	s	CARBON 10 5% 1/2W
R331	1-244-829-00	s	CARBON 15 5% 1/2W
R340	1-244-825-00	s	CARBON 10 5% 1/2W
R342	1-244-829-00	s	CARBON 15 5% 1/2W
R349	1-244-833-00	s	CARBON 22 5% 1/2W
R350	1-244-825-00	s	CARBON 10 5% 1/2W
R357	1-244-833-00	s	CARBON 22 5% 1/2W
R358	1-244-825-00	s	CARBON 10 5% 1/2W
R365	1-244-833-00	s	CARBON 22 5% 1/2W
R366	1-244-825-00	s	CARBON 10 5% 1/2W
RV101	1-228-298-00	s	VAR,CERMET 200K
RV102	1-228-293-00	s	VAR,CERMET 5K
RV103	1-228-308-00	s	VAR,CERMET 10K
RV104	1-228-294-00	s	VAR,CERMET 10K
RV105	1-228-294-00	s	VAR,CERMET 10K
RV106	1-228-296-00	s	VAR,CERMET 50K
RV107	1-228-291-00	s	VAR,CERMET 1K
RV201	1-228-298-00	s	VAR,CERMET 200K
RV202	1-228-293-00	s	VAR,CERMET 5K
RV203	1-228-308-00	s	VAR,CERMET 10K
RV204	1-228-294-00	s	VAR,CERMET 10K
RV205	1-228-294-00	s	VAR,CERMET 10K
RV206	1-228-296-00	s	VAR,CERMET 50K
RV207	1-228-291-00	s	VAR,CERMET 1K
RV301	1-228-302-00	s	VAR,CERMET 100
RV302	1-228-302-00	s	VAR,CERMET 100
S101	1-516-923-21	s	SWITCH
S201	1-516-923-21	s	SWITCH
T301	1-433-195-00	s	BIAS
T302	1-433-196-00	s	BIAS
T303	1-433-196-00	s	BIAS
T304	1-433-196-00	s	BIAS
T305	1-433-196-00	s	BIAS
T306	1-433-196-00	s	BIAS

BC-5 BOARD

	A-6717-343-A	o	MOUNTED CIRCUIT BOARD,BC-5
C5	1-102-112-00	s	CERAMIC 330PF 10% 50V
C6	1-102-123-00	s	CERAMIC 0.0033 10% 50V
C7	1-102-109-00	s	CERAMIC 180PF 10% 50V
C8	1-102-109-00	s	CERAMIC 180PF 10% 50V
CN1	1-564-417-11	o	RECEPTACLE,12P
CN2	1-564-416-11	o	RECEPTACLE,10P
CN3	1-564-415-11	o	RECEPTACLE,8P
D1	8-719-911-19	s	1SS119
D2	8-719-911-19	s	1SS119
D3	8-719-911-19	s	1SS119
D4	8-719-911-19	s	1SS119
IC1	8-759-240-08	s	TC4008BP(TOSHIBA)
IC2	8-759-200-32	s	TC40H161P(TOSHIBA)
IC3	8-759-145-84	s	uPD4584BC(NEC)
IC4	8-759-240-08	s	TC4008BP(TOSHIBA)
IC5	8-759-200-32	s	TC40H161P(TOSHIBA)
IC6	8-759-200-32	s	TC40H161P(TOSHIBA)
IC7	8-759-220-04	s	TC40H004P(TOSHIBA)
IC8	8-759-220-74	s	TC40H074P(TOSHIBA)
IC9	8-759-200-22	s	TC40H138P(TOSHIBA)
IC10	8-759-200-22	s	TC40H138P(TOSHIBA)
IC11	8-759-200-22	s	TC40H138P(TOSHIBA)
IC12	8-759-200-22	s	TC40H138P(TOSHIBA)
IC13	8-759-240-30	s	TC4030BP(TOSHIBA)
IC14	8-759-240-27	s	TC4027BP(TOSHIBA)
IC15	8-759-974-06	s	SN7406N(TI)
IC16	8-759-200-22	s	TC40H138P(TOSHIBA)
IC17	8-759-240-19	s	TC4019BP(TOSHIBA)
IC18	8-759-240-19	s	TC4019BP(TOSHIBA)
IC19	8-759-240-25	s	TC4025BP(TOSHIBA)
IC20	8-759-240-81	s	TC4081BP(TOSHIBA)
IC21	8-759-240-27	s	TC4027BP(TOSHIBA)
IC22	8-759-240-50	s	TC4050BP(TOSHIBA)
IC23	8-759-200-22	s	TC40H138P(TOSHIBA)
IC24	8-759-240-19	s	TC4019BP(TOSHIBA)
IC25	8-759-240-19	s	TC4019BP(TOSHIBA)

Ref.No.	Parts No.	SP	Description
IC26	8-759-240-25	s	TC4025BP(TOSHIBA)
IC27	8-759-240-81	s	TC4081BP(TOSHIBA)
IC28	8-759-240-27	s	TC4027BP(TOSHIBA)
IC29	8-759-974-06	s	SN7406N(TI)
IC30	8-759-240-13	s	TC4013BP(TOSHIBA)
IC31	8-759-240-01	s	TC4001BP(TOSHIBA)
IC32	8-759-240-27	s	TC4027BP(TOSHIBA)
IC33	8-759-240-50	s	TC4050BP(TOSHIBA)
IC34	8-759-240-15	s	TC4015BP(TOSHIBA)
IC35	8-759-240-81	s	TC4081BP(TOSHIBA)
IC36	8-759-240-13	s	TC4013BP(TOSHIBA)
IC37	8-759-240-13	s	TC4013BP(TOSHIBA)
IC38	8-759-145-84	s	uPD4584BC(NEC)
L1	1-459-155-00	s	45
S1	1-553-563-00	s	ROTARY
S2	1-553-563-00	s	ROTARY
S3	1-553-563-00	s	ROTARY
S4	1-552-509-00	s	DIP
S5	1-552-509-00	s	DIP
X1	1-527-476-00	s	480kHz

BC-6 BOARD

	A-6717-344-A	o	MOUNTED CIRCUIT BOARD,BC-6
C5	1-102-112-00	s	CERAMIC 330PF 10% 50V
CN2	1-560-471-00	o	RECEPTACLE,10P
	1-561-589-00	o	HOUSING,10P
	1-561-557-00	o	CONTACT
CN3	1-560-471-00	o	RECEPTACLE,10P
	1-561-589-00	o	HOUSING,10P
	1-561-557-00	o	CONTACT
CN4	1-560-471-00	o	RECEPTACLE,10P
	1-561-589-001	o	HOUSING,10P
	1-561-557-00	o	CONTACT
D1	8-719-911-19	s	1SS119
D2	8-719-911-19	s	1SS119
D3	8-719-911-19	s	1SS119
IC1	8-759-600-61	s	M54529AP(MITSUBISHI)
IC2	8-759-241-74	s	TC40174BP(TOSHIBA)
IC3	8-759-940-94	s	MSM4094RS(OKI)
IC4	8-759-600-61	s	M54529AP(MITSUBISHI)
IC5	8-759-241-74	s	TC40174BP(TOSHIBA)
IC6	8-759-940-94	s	MSM4094RS(OKI)
IC7	8-759-600-61	s	M54529AP(MITSUBISHI)
IC8	8-759-241-74	s	TC40174BP(TOSHIBA)
IC9	8-759-940-94	s	MSM4094RS(OKI)
IC10	8-759-240-49	s	TC4049BP(TOSHIBA)
IC11	8-759-240-30	s	TC4030BP(TOSHIBA)
IC12	8-759-600-61	s	M54529AP(MITSUBISHI)
IC13	8-759-245-55	s	TC4555BP(TOSHIBA)
IC14	8-759-240-81	s	TC4081BP(TOSHIBA)
IC15	8-759-600-61	s	M54529AP(MITSUBISHI)
IC16	8-759-145-84	s	uPD4584BC(NEC)
IC17	8-759-145-84	s	uPD4584BC(NEC)
L1	1-459-155-00	s	45

BF-7 BOARD

	A-6713-189-A	o	MOUNTED CIRCUIT BOARD,BF-7
C3	1-123-616-00	s	ELECT 4.7 20% 25V
C10	1-108-595-00	s	MYLAR 0.047 5% 50V
C103	1-123-616-00	s	ELECT 4.7 20% 25V
D1	8-719-911-19	s	1SS119
D2	8-719-911-19	s	1SS119
D3	8-719-200-02	s	10E-2
D102	8-719-911-19	s	1SS119
IC1	8-759-745-56	s	NJM4556D(JRC)
IC201	8-759-700-62	s	NJM4562D(JRC)
IC301	8-759-700-62	s	NJM4562D(JRC)
Q1	8-729-663-47	s	2SC1364
Q2	8-729-663-47	s	2SC1364
Q3	8-729-663-47	s	2SC1364
Q4	8-729-201-05	s	2SC2878-B
Q5	8-729-173-37	s	2SA733-P
Q101	8-729-663-47	s	2SC1364
Q102	8-729-663-47	s	2SC1364
Q103	8-729-201-05	s	2SC2878-B
Q104	8-729-173-37	s	2SA733-P
R16	1-244-849-00	s	CARBON 100 5% 1/2W
R17	1-244-849-00	s	CARBON 100 5% 1/2W
R205	1-244-849-00	s	CARBON 100 5% 1/2W
R206	1-244-849-00	s	CARBON 100 5% 1/2W
R305	1-244-849-00	s	CARBON 100 5% 1/2W
R306	1-244-849-00	s	CARBON 100 5% 1/2W
RV1	1-228-306-00	s	VAR,CERMET 2K
RV101	1-228-306-00	s	VAR,CERMET 2K
RV201	1-228-307-00	s	VAR,CERMET 5K
RV202	1-228-307-00	s	VAR,CERMET 5K
RV301	1-228-307-00	s	VAR,CERMET 5K
RV302	1-228-307-00	s	VAR,CERMET 5K

CC-15 BOARD

	A-6711-517-A	o	MOUNTED CIRCUIT BOARD,CC-15
C2	1-123-821-00	s	ELECT 47 20% 16V
C3	1-123-821-00	s	ELECT 47 20% 16V
C9	1-123-821-00	s	ELECT 47 20% 16V
C10	1-109-545-00	s	MICA 270PF 5% 100V
C11	1-124-185-00	s	ELECT 4.7 20% 50V

Ref.No.	Parts No.	SP	Description
C12	1-124-119-00	s	ELECT 330 20% 16V
C16	1-161-483-00	s	CERAMIC 0.1 10% 50V
C24	1-123-821-00	s	ELECT 47 20% 16V
C26	1-124-185-00	s	ELECT 4.7 20% 50V
C27	1-124-119-00	s	ELECT 330 20% 16V
C31	1-161-483-00	s	CERAMIC 0.1 10% 50V
C35	1-123-822-00	s	ELECT 47 20% 10V
C37	1-123-821-00	s	ELECT 47 20% 16V
C42	1-123-821-00	s	ELECT 47 20% 16V
C45	1-109-545-00	s	MICA 270PF 5% 100V
C46	1-124-185-00	s	ELECT 4.7 20% 50V
C47	1-124-119-00	s	ELECT 330 20% 16V
C51	1-161-483-00	s	CERAMIC 0.1 10% 50V
C55	1-123-821-00	s	ELECT 47 20% 16V
C57	1-124-185-00	s	ELECT 4.7 20% 50V
C58	1-124-119-00	s	ELECT 330 20% 16V
C62	1-161-483-00	s	CERAMIC 0.1 10% 50V
C101	1-123-822-00	s	ELECT 47 20% 10V
C104	1-123-822-00	s	ELECT 47 20% 10V
C106	1-123-821-00	s	ELECT 47 20% 16V
C112	1-123-821-00	s	ELECT 47 20% 16V
C114	1-124-119-00	s	ELECT 330 20% 16V
C116	1-123-821-00	s	ELECT 47 20% 16V
C122	1-124-472-11	s	ELECT 470 20% 10V
C124	1-107-208-00	s	MICA 18PF 5% 500V
C126	1-123-617-00	s	ELECT 10 20% 16V
C129	1-161-468-00	s	CERAMIC 560PF 5% 50V
C202	1-124-119-00	s	ELECT 330 20% 16V
C203	1-123-821-00	s	ELECT 47 20% 16V
C208	1-124-119-00	s	ELECT 330 20% 16V
C212	1-124-472-11	s	ELECT 470 20% 10V
C214	1-123-822-00	s	ELECT 47 20% 10V
C215	1-123-617-00	s	ELECT 10 20% 16V
C217	1-107-211-00	s	MICA 24PF 5% 500V
C219	1-123-822-00	s	ELECT 47 20% 10V
C221	1-123-821-00	s	ELECT 47 20% 16V
C223	1-123-821-00	s	ELECT 47 20% 16V
C225	1-161-483-00	s	CERAMIC 0.1 10% 50V
C226	1-123-620-00	s	ELECT 10 20% 25V
C227	1-131-404-00	s	ELECT 0.22 20% 25V
C250	1-107-209-00	s	MICA 20PF 5% 500V
C301	1-124-230-11	s	ELECT 47 20% 10V
C302	1-161-481-00	s	CERAMIC 0.047 10% 50V
C303	1-124-230-11	s	ELECT 47 20% 10V
C304	1-161-481-00	s	CERAMIC 0.047 10% 50V
C306	1-161-474-00	s	CERAMIC 0.022 10% 50V
C308	1-161-474-00	s	CERAMIC 0.022 10% 50V
C309	1-161-474-00	s	CERAMIC 0.022 10% 50V
C311	1-161-474-00	s	CERAMIC 0.022 10% 50V
C314	1-161-481-00	s	CERAMIC 0.047 10% 50V
C315	1-124-236-00	s	ELECT 47 20% 16V
C316	1-124-236-00	s	ELECT 47 20% 16V
C317	1-161-481-00	s	CERAMIC 0.047 10% 50V
C318	1-161-474-00	s	CERAMIC 0.022 10% 50V
C319	1-161-474-00	s	CERAMIC 0.022 10% 50V
C320	1-124-234-00	s	ELECT 22 20% 16V
C321	1-124-234-00	s	ELECT 22 20% 16V
C324	1-161-474-00	s	CERAMIC 0.022 10% 50V
C325	1-161-474-00	s	CERAMIC 0.022 10% 50V
C328	1-161-474-00	s	CERAMIC 0.022 10% 50V
C331	1-124-242-00	s	ELECT 33 20% 25V
C332	1-124-242-00	s	ELECT 33 20% 25V
C333	1-124-236-00	s	ELECT 47 20% 16V
C334	1-161-481-00	s	CERAMIC 0.047 10% 50V

Ref.No.	Parts No.	SP	Description
C335	1-124-236-00	s	ELECT 47 20% 16V
C336	1-161-481-00	s	CERAMIC 0.047 10% 50V
C337	1-124-230-11	s	ELECT 47 20% 10V
C338	1-161-481-00	s	CERAMIC 0.047 10% 50V
C340	1-109-549-00	s	MICA 390PF 5% 100V
C341	1-161-474-00	s	CERAMIC 0.022 10% 50V
C342	1-161-474-00	s	CERAMIC 0.022 10% 50V
C343	1-161-481-00	s	CERAMIC 0.047 10% 50V
C344	1-109-545-00	s	MICA 270PF 5% 100V
C345	1-161-481-00	s	CERAMIC 0.047 10% 50V
C347	1-161-481-00	s	CERAMIC 0.047 10% 50V
C349	1-161-481-00	s	CERAMIC 0.047 10% 50V
C351	1-161-481-00	s	CERAMIC 0.047 10% 50V
CN101	1-560-885-00	o	PLUG 20P
CN102	1-560-885-00	o	PLUG 20P
D201	8-719-901-33	s	1SS133
D202	8-719-901-33	s	1SS133
D203	8-719-901-33	s	1SS133
D204	8-719-901-33	s	1SS133
D205	8-719-100-20	s	RD3.9E-B1
D206	8-719-901-33	s	1SS133
D301	8-719-901-33	s	1SS133
D302	8-719-901-33	s	1SS133
D303	8-719-901-33	s	1SS133
D304	8-719-901-33	s	1SS133
D305	8-719-901-33	s	1SS133
D306	8-719-901-33	s	1SS133
D307	8-719-901-33	s	1SS133
FB1	1-535-178-00	s	
FB2	1-535-178-00	s	
FB3	1-535-178-00	s	
FB4	1-535-178-00	s	
FB5	1-535-178-00	s	
FB6	1-535-178-00	s	
FB7	1-535-178-00	s	
FB8	1-535-178-00	s	
FL1	1-235-321-11	s	LPF
FL2	1-235-321-11	s	LPF
FL101	1-235-322-11	s	LPF
IC1	8-759-906-07	s	TL607CP(TI)
IC2	8-752-006-10	s	CX20061(SONY)
IC3	8-759-201-40	s	TL8605P-S(TOSHIBA)
IC4	8-759-178-08	s	uPC78L08(NEC)
IC5	8-759-201-40	s	TL8605P-S(TOSHIBA)
IC6	8-759-906-07	s	TL607CP(TI)
IC7	8-752-006-10	s	CX20061(SONY)
IC8	8-759-201-40	s	TL8605P-S(TOSHIBA)
IC9	8-759-201-40	s	TL8605P-S(TOSHIBA)
IC101	8-759-240-51	s	TC4051BP(TOSHIBA)
IC102	8-729-203-21	s	2SK389-GR
IC103	8-752-006-10	s	CX20061(SONY)
IC104	8-749-938-90	s	BX389(SONY)
IC201	8-752-006-10	s	CX20061(SONY)
IC202	8-749-938-90	s	BX389(SONY)
IC203	8-759-904-26	s	SN74ALS08N(TI)
IC204	8-759-990-82	s	TL082CP(TI)
IC301	8-759-902-21	s	SN74LS221N(TI)
IC302	8-759-301-24	s	HD10124(HITACHI)
IC303	8-759-001-98	s	MC10198L(MOTOROLA)

Ref.No.	Parts No.	SP	Description
IC304	8-759-001-98	s	MC10198L(MOTOROLA)
IC305	8-759-300-25	s	HD10125(HITACHI)
IC306	8-759-904-18	s	SN74ALS00AN(TI)
IC307	8-749-938-10	s	BX381(SONY)
IC308	8-759-900-59	s	HI1-201-5(HARRIS)
IC309	8-759-145-57	s	uPC4557C(NEC)
IC310	8-759-354-52	s	HD75452P(HITACHI)
IC311	8-759-131-11	s	uPC311C(NEC)
L308	1-459-155-00	s	45
LV101	1-407-575-00	s	VAR,100
LV201	1-407-574-00	s	VAR,68
Q1	8-724-375-01	s	2SC403C
Q2	8-729-603-50	s	2SC403SP
Q3	8-724-375-01	s	2SC403C
Q4	8-729-173-37	s	2SA733-P
Q5	8-724-375-01	s	2SC403C
Q6	8-724-375-01	s	2SC403C
Q7	8-729-173-37	s	2SA733-P
Q8	8-724-375-01	s	2SC403C
Q9	8-724-375-01	s	2SC403C
Q10	8-729-603-50	s	2SC403SP
Q11	8-724-375-01	s	2SC403C
Q12	8-729-173-37	s	2SA733-P
Q13	8-724-375-01	s	2SC403C
Q14	8-724-375-01	s	2SC403C
Q15	8-729-173-37	s	2SA733-P
Q16	8-724-375-01	s	2SC403C
Q101	8-729-112-06	s	2SA1206
Q102	8-769-193-09	s	2SK43-3
Q103	8-724-375-01	s	2SC403C
Q104	8-729-173-37	s	2SA733-P
Q105	8-724-375-01	s	2SC403C
Q106	8-724-375-01	s	2SC403C
Q107	8-729-190-12	s	2SC2901
Q201	8-724-375-01	s	2SC403C
Q202	8-729-190-12	s	2SC2901
Q203	8-729-190-12	s	2SC2901
Q204	8-724-375-01	s	2SC403C
Q205	8-729-190-12	s	2SC2901
Q206	8-729-190-12	s	2SC2901
Q207	8-729-112-06	s	2SA1206
Q208	8-729-112-06	s	2SA1206
Q209	8-729-112-06	s	2SA1206
Q210	8-729-112-06	s	2SA1206
Q301	8-729-190-12	s	2SC2901
R128	1-214-585-00	s	RES,METAL 15K
R244	1-214-575-00	s	RES,METAL 5.6K
RV1	1-228-291-00	s	VAR,CERMET 1K
RV2	1-228-290-00	s	VAR,CERMET 500
RV3	1-228-294-00	s	VAR,CERMET 10K
RV4	1-228-290-00	s	VAR,CERMET 500
RV5	1-228-294-00	s	VAR,CERMET 10K
RV6	1-228-291-00	s	VAR,CERMET 1K
RV7	1-228-290-00	s	VAR,CERMET 500
RV8	1-228-294-00	s	VAR,CERMET 10K
RV9	1-228-290-00	s	VAR,CERMET 500
RV10	1-228-294-00	s	VAR,CERMET 10K

Ref.No.	Parts No.	SP	Descripion
RV101	1-228-290-00	s	VAR,CERMET 500
RV102	1-228-292-00	s	VAR,CERMET 2K
RV103	1-228-293-00	s	VAR,CERMET 5K
RV201	1-228-292-00	s	VAR,CERMET 2K
RV202	1-228-293-00	s	VAR,CERMET 5K
RV301	1-228-293-00	s	VAR,CERMET 5K
RV302	1-228-293-00	s	VAR,CERMET 5K
TH1	1-800-071-XX	s	S-300
TH2	1-800-071-XX	s	S-300
TH201	1-806-702-00	s	POSITIVE 2700

CK-14 BOARD

	A-6711-571-A	o	MOUNTED CIRCUIT BOARD,CK-14 WITH CK-17 BOARD

CK-14 BOARD

C10	1-102-114-00	s	CERAMIC 470PF 10% 50V
C18	1-109-535-00	s	MICA 100PF 5% 100V
C23	1-109-537-00	s	MICA 120PF 5% 100V
C25	1-102-106-00	s	CERAMIC 100PF 10% 50V
C26	1-102-114-00	s	CERAMIC 470PF 10% 50V
C33	1-109-526-00	s	MICA 43PF 5% 100V
C36	1-109-539-00	s	MICA 150PF 5% 100V
C55	1-109-526-00	s	MICA 43PF 5% 100V
C81	1-102-106-00	s	CERAMIC 100PF 10% 50V
C89	1-109-545-00	s	MICA 270PF 5% 100V
C90	1-130-853-00	s	FILM 0.0047 5% 100V
C112	1-102-114-00	s	CERAMIC 470PF 10% 50V
C123	1-109-549-00	s	MICA 390PF 5% 100V
C125	1-109-528-00	s	MICA 51PF 5% 100V
C126	1-109-531-00	s	MICA 68PF 5% 100V
C128	1-102-106-00	s	CERAMIC 100PF 10% 50V
C129	1-102-114-00	s	CERAMIC 470PF 10% 50V
C141	1-109-525-00	s	MICA 39PF 5% 100V
C146	1-109-539-00	s	MICA 150PF 5% 100V
C163	1-109-525-00	s	MICA 39PF 5% 100V
C179	1-130-853-00	s	FILM 0.0047 5% 100V
C203	1-109-545-00	s	MICA 270PF 5% 100V
C221	1-107-204-00	s	MICA 12PF 5% 500V
C234	1-107-157-00	s	MICA 27PF 5% 500V
C277	1-109-539-00	s	MICA 150PF 5% 100V
C279	1-109-539-00	s	MICA 150PF 5% 100V
C286	1-109-562-00	s	MICA 0.0011 5% 100V
C301	1-109-553-00	s	MICA 470PF 5% 100V
D1	8-719-901-33	s	1SS133
D2	8-719-901-33	s	1SS133
D3	8-719-901-33	s	1SS133
D4	8-719-901-33	s	1SS133
D5	8-719-901-33	s	1SS133
D7	8-719-901-33	s	1SS133
D8	8-719-901-33	s	1SS133
D9	8-719-901-33	s	1SS133
D10	8-719-901-33	s	1SS133
D11	8-719-901-33	s	1SS133
D12	8-719-901-33	s	1SS133
D13	8-719-901-33	s	1SS133
D14	8-719-901-33	s	1SS133
D15	8-719-901-33	s	1SS133
D16	8-719-901-33	s	1SS133

Ref.No.	Parts No.	SP	Description
D17	8-719-901-33	s	1SS133
D19	8-719-901-33	s	1SS133
D20	8-719-901-33	s	1SS133
D21	8-719-901-33	s	1SS133
D22	8-719-901-33	s	1SS133
D23	8-719-101-97	s	1SS97-1
D24	8-719-815-80	s	1S1587
D25	8-719-901-33	s	1SS133
D26	8-719-901-33	s	1SS133
D27	8-719-901-33	s	1SS133
D28	8-719-162-07	s	RD6.2E-B
D29	8-719-901-33	s	1SS133
D30	8-719-162-07	s	RD6.2E-B
D33	8-719-901-33	s	1SS133
D50	8-719-815-80	s	1S1587
IC1	8-759-900-74	s	SN74LS74AN(TI)
IC2	8-759-901-91	s	SN74LS191N(TI)
IC3	8-759-901-23	s	SN74LS123N(TI)
IC1B	8-759-902-74	s	SN74LS423N(TI)
IC1C	8-759-900-74	s	SN74LS74AN(TI)
IC1D	8-759-900-00	s	SN74LS00N(TI)
IC1E	8-759-900-11	s	SN74LS11N(TI)
IC1F	8-759-900-58	s	HA1-4905-5(HARRIS)
IC1J	8-759-974-06	s	SN7406N(TI)
IC1K	8-759-103-19	s	uPC319C(NEC)
IC1L	8-759-900-74	s	SN74LS74AN(TI)
IC1M	8-759-900-00	s	SN74LS00N(TI)
IC1N	8-759-900-11	s	SN74LS11N(TI)
IC1P	8-759-900-58	s	HA1-4905-5(HARRIS)
IC1T	8-757-731-00	s	CX773A(SONY)
IC1U	8-759-300-25	s	HD10125(HITACHI)
IC1V	8-759-900-00	s	SN74LS00N(TI)
IC1X	8-757-903-00	s	CX7903(SONY)
IC1Y	8-759-103-19	s	uPC319C(NEC)
IC2A	8-759-301-24	s	HD10124(HITACHI)
IC2B	8-759-902-21	s	SN74LS221N(TI)
IC2C	8-759-901-63	s	SN74LS163AN(TI)
IC2D	8-759-902-21	s	SN74LS221N(TI)
IC2E	8-759-901-12	s	SN74LS112AN(TI)
IC2G	8-759-990-82	s	TL082CP(TI)
IC2H	8-759-990-84	s	TL084CN(TI)
IC2J	8-759-301-24	s	HD10124(HITACHI)
IC2K	8-759-902-21	s	SN74LS221N(TI)
IC2L	8-759-901-63	s	SN74LS163AN(TI)
IC2M	8-759-902-21	s	SN74LS221N(TI)
IC2N	8-759-901-12	s	SN74LS112AN(TI)
IC2R	8-759-990-82	s	TL082CP(TI)
IC2S	8-759-990-84	s	TL084CN(TI)
IC2T	8-759-943-65	s	SN74365AN(TI)
IC2U	8-759-974-04	s	SN7404N(TI)
IC2V	8-759-952-07	s	SN75207BN(TI)
IC2W	8-759-974-06	s	SN7406N(TI)
IC3A	8-759-001-98	s	MC10198L(MOTOROLA)
IC3B	8-759-901-63	s	SN74LS163AN(TI)
IC3C	8-759-914-00	s	SN7400N(TI)
IC3D	8-759-901-64	s	SN74LS164N(TI)
IC3E	8-759-900-08	s	SN74LS08N(TI)
IC3F	8-759-900-59	s	HI1-201-5(HARRIS)
IC3G	8-749-938-10	s	BX381(SONY)
IC3H	8-759-908-86	s	HI1-201H-5(HARRIS)

Ref.No.	Parts No.	SP	Description
IC3J	8-759-001-98	s	MC10198L(MOTOROLA)
IC3K	8-759-901-63	s	SN74LS163AN(TI)
IC3L	8-759-914-00	s	SN7400N(TI)
IC3M	8-759-901-64	s	SN74LS164N(TI)
IC3N	8-759-900-08	s	SN74LS08N(TI)
IC3P	8-759-900-59	s	HI1-201-5(HARRIS)
IC3R	8-749-938-10	s	BX381(SONY)
IC3S	8-759-908-86	s	HI1-201H-5(HARRIS)
IC3T	8-759-901-64	s	SN74LS164N(TI)
IC3U	8-759-901-64	s	SN74LS164N(TI)
IC3V	8-759-902-21	s	SN74LS221N(TI)
IC3W	8-759-942-65	s	SN74265N(TI)
IC3X	8-749-938-10	s	BX381(SONY)
IC4A	8-759-001-98	s	MC10198L(MOTOROLA)
IC4B	8-759-911-63	s	SN74S163N(TI)
IC4C	8-759-900-74	s	SN74LS74AN(TI)
IC4D	8-759-901-23	s	SN74LS123N(TI)
IC4E	8-759-900-04	s	SN74LS04N(TI)
IC4F	8-759-145-57	s	uPC4557C(NEC)
IC4G	8-759-745-60	s	NJM4560D(JRC)
IC4H	8-759-952-07	s	SN75207BN(TI)
IC4J	8-759-001-98	s	MC10198L(MOTOROLA)
IC4K	8-759-911-63	s	SN74S163N(TI)
IC4L	8-759-900-74	s	SN74LS74AN(TI)
IC4M	8-759-901-23	s	SN74LS123N(TI)
IC4N	8-759-900-04	s	SN74LS04N(TI)
IC4P	8-759-145-57	s	uPC4557C(NEC)
IC4R	8-759-745-60	s	NJM4560D(JRC)
IC4S	8-759-952-07	s	SN75207BN(TI)
IC4T	8-759-901-64	s	SN74LS164N(TI)
IC4U	8-759-900-00	s	SN74LS00N(TI)
IC4V	8-759-974-04	s	SN7404N(TI)
IC4W	8-759-901-63	s	SN74LS163AN(TI)
IC5A	8-759-300-25	s	HD10125(HITACHI)
IC5B	8-759-941-91	s	SN74191N(TI)
IC5C	8-759-901-74	s	SN74LS174N(TI)
IC5D	8-759-910-51	s	SN74S51N(TI)
IC5E	8-759-902-21	s	SN74LS221N(TI)
IC5F	8-759-902-21	s	SN74LS221N(TI)
IC5G	8-759-954-52	s	SN75452BP(TI)
IC5H	8-759-103-19	s	uPC319C(NEC)
IC5J	8-759-300-25	s	HD10125(HITACHI)
IC5K	8-759-941-91	s	SN74191N(TI)
IC5L	8-759-901-74	s	SN74LS174N(TI)
IC5M	8-759-910-51	s	SN74S51N(TI)
IC5N	8-759-902-21	s	SN74LS221N(TI)
IC5P	8-759-902-21	s	SN74LS221N(TI)
IC5R	8-759-954-52	s	SN75452BP(TI)
IC5S	8-759-103-19	s	uPC319C(NEC)
IC5T	8-759-901-64	s	SN74LS164N(TI)
IC5U	8-759-910-51	s	SN74S51N(TI)
IC5V	8-759-902-21	s	SN74LS221N(TI)
IC5W	8-759-901-63	s	SN74LS163AN(TI)
IC5X	8-759-911-63	s	SN74S163N(TI)
IC5Z	8-759-902-21	s	SN74LS221N(TI)
IC1GA	8-759-906-01	s	TL601CP(TI)
IC1GB	8-759-906-01	s	TL601CP(TI)
IC1HA	8-759-906-01	s	TL601CP(TI)
IC1HB	8-759-906-01	s	TL601CP(TI)
IC1RA	8-759-906-01	s	TL601CP(TI)
IC1RB	8-759-906-01	s	TL601CP(TI)
IC1SA	8-759-906-01	s	TL601CP(TI)
IC1SB	8-759-906-01	s	TL601CP(TI)

Ref.No.	Parts No.	SP	Description
JP1	1-560-733-00	s	PIN,SHORT
JP2	1-560-733-00	s	PIN,SHORT
JP3	1-560-733-00	s	PIN,SHORT
JP4	1-560-733-00	s	PIN,SHORT
JP5	1-560-733-00	s	PIN,SHORT
JP6	1-560-733-00	s	PIN,SHORT
JP7	1-560-733-00	s	PIN,SHORT
JP8	1-560-733-00	s	PIN,SHORT
JP9	1-560-733-00	s	PIN,SHORT
JP10	1-560-733-00	s	PIN,SHORT
JP21	1-560-733-00	s	PIN,SHORT
JP22	1-560-733-00	s	PIN,SHORT
JP23	1-560-733-00	s	PIN,SHORT
JP24	1-560-733-00	s	PIN,SHORT
JP25	1-560-733-00	s	PIN,SHORT
JP26	1-560-733-00	s	PIN,SHORT
JP27	1-560-733-00	s	PIN,SHORT
JP28	1-560-733-00	s	PIN,SHORT
JP29	1-560-733-00	s	PIN,SHORT
JP30	1-560-733-00	s	PIN,SHORT
JP31	1-560-733-00	s	PIN,SHORT
JP32	1-560-733-00	s	PIN,SHORT
JS1	1-561-832-00	s	SOCKET,SHORT
JS2	1-561-832-00	s	SOCKET,SHORT
JS3	1-561-832-00	s	SOCKET,SHORT
JS4	1-561-832-00	s	SOCKET,SHORT
JS5	1-561-832-00	s	SOCKET,SHORT
L3	1-421-329-00	s	10
L4	1-421-329-00	s	10
L5	1-421-329-00	s	10
L6	1-421-329-00	s	10
L13	1-421-329-00	s	10
L14	1-421-329-00	s	10
L16	1-407-932-00	s	MICRO 10
L24	1-407-923-00	s	MICRO 47
L27	1-421-329-00	s	10
L28	1-421-329-00	s	10
Q1	8-729-117-54	s	2SA1175
Q2	8-729-117-54	s	2SA1175
Q3	8-769-195-00	s	2SK43-5
Q4	8-729-117-54	s	2SA1175
Q5	8-729-672-43	s	2SC2724
Q6	8-729-117-54	s	2SA1175
Q7	8-724-375-01	s	2SC403C
Q8	8-724-375-01	s	2SC403C
Q9	8-724-375-01	s	2SC403C
RB1	1-231-521-00	s	3.3Kx4
RB2	1-231-521-00	s	3.3Kx4
RV1	1-228-293-00	s	VAR,CERMET 5K
RV2	1-228-294-00	s	VAR,CERMET 10K
RV3	1-228-292-00	s	VAR,CERMET 2K
RV5	1-228-291-00	s	VAR,CERMET 1K
RV6	1-228-294-00	s	VAR,CERMET 10K
RV7	1-228-293-00	s	VAR,CERMET 5K
RV8	1-228-293-00	s	VAR,CERMET 5K
RV9	1-228-292-00	s	VAR,CERMET 2K
RV12	1-228-294-00	s	VAR,CERMET 10K
RV13	1-228-293-00	s	VAR,CERMET 5K
RV14	1-228-293-00	s	VAR,CERMET 5K
RV20	1-224-940-00	s	VAR,METAL 10K
S1	1-553-925-00	s	ROTARY
S2	1-553-925-00	s	ROTARY
X1W	1-527-729-00	s	VCO,14.1875MHz
X4X	1-567-088-00	s	VCO,11.25MHz

CK-17 BOARD

C1	1-102-115-00	s	CERAMIC 560PF 10% 50V
C2	1-102-115-00	s	CERAMIC 560PF 10% 50V
C3	1-123-822-00	s	ELECT 47 20% 10V
C4	1-161-013-00	s	CERAMIC 0.01 10% 25V
C5	1-161-013-00	s	CERAMIC 0.01 10% 25V
C6	1-161-013-00	s	CERAMIC 0.01 10% 25V
IC1	8-759-902-21	s	SN74LS221N(TI)
IC2	8-759-900-00	s	SN74LS00N(TI)
IC3	8-759-240-53	s	TC4053BP(TOSHIBA)
IC4	8-759-900-00	s	SN74LS00N(TI)
IC5	8-759-345-57	s	HD14557BP(HITACHI)
S1	1-552-509-00	s	DIP

CK-16 BOARD

	A-6711-587-A	o	MOUNTED CIRCUIT BOARD,CK-16
C501	1-161-481-00	s	CERAMIC 0.047 10% 50V
C502	1-124-224-00	s	ELECT 47 20% 6.3V
C503	1-124-225-00	s	ELECT 100 20% 6.3V
C504	1-161-481-00	s	CERAMIC 0.047 10% 50V
C505	1-161-465-00	s	CERAMIC 330PF 5% 50V
C506	1-107-206-00	s	MICA 15PF 5% 500V
C507	1-161-474-00	s	CERAMIC 0.022 10% 50V
C508	1-161-476-00	s	CERAMIC 51PF 10% 50V
C509	1-161-476-00	s	CERAMIC 51PF 10% 50V
C511	1-161-461-00	s	CERAMIC 150PF 5% 50V
C512	1-161-474-00	s	CERAMIC 0.022 10% 50V
C513	1-161-477-00	s	CERAMIC 56PF 10% 50V
C514	1-161-474-00	s	CERAMIC 0.022 10% 50V
C515	1-161-474-00	s	CERAMIC 0.022 10% 50V
C516	1-161-460-00	s	CERAMIC 120PF 5% 50V
C517	1-161-474-00	s	CERAMIC 0.022 10% 50V
C701	1-124-224-00	s	ELECT 47 20% 6.3V
C702	1-161-481-00	s	CERAMIC 0.047 10% 50V
C703	1-107-210-00	s	MICA 22PF 5% 500V
C704	1-107-210-00	s	MICA 22PF 5% 500V
C705	1-124-224-00	s	ELECT 47 20% 6.3V
C706	1-161-481-00	s	CERAMIC 0.047 10% 50V
C707	1-124-224-00	s	ELECT 47 20% 6.3V
C708	1-161-481-00	s	CERAMIC 0.047 10% 50V
CN101	1-560-940-00	o	RECEPTACLE,20P
CN102	1-560-940-00	o	RECEPTACLE,20P

Ref.No.	Parts No.	SP	Description
FB701	1-535-178-00	s	
FB702	1-535-178-00	s	
IC501	8-759-902-21	s	SN74LS221N(TI)
IC502	8-759-902-21	s	SN74LS221N(TI)
IC503	8-759-902-21	s	SN74LS221N(TI)
IC504	8-759-902-21	s	SN74LS221N(TI)
IC505	8-759-900-74	s	SN74LS74AN(TI)
IC701	8-759-908-78	s	CX7994(SONY)
IC702	8-759-908-74	s	CX7992(SONY)
R501	1-215-425-00	s	METAL 1.5K 1% 1/6W
R502	1-215-429-00	s	METAL 2.2K 1% 1/6W
R503	1-215-451-00	s	METAL 18K 1% 1/6W
R504	1-215-463-00	s	METAL 56K 1% 1/6W
R505	1-215-456-00	s	METAL 30K 1% 1/6W
R506	1-215-439-00	s	METAL 5.6K 1% 1/6W
R507	1-215-459-00	s	METAL 39K 1% 1/6W
R508	1-215-449-00	s	METAL 15K 1% 1/6W
R509	1-215-433-00	s	METAL 3.3K 1% 1/6W
R707	1-215-435-00	s	METAL 3.9K 1% 1/6W
R708	1-215-443-00	s	METAL 8.2K 1% 1/6W
R709	1-215-449-00	s	METAL 15K 1% 1/6W
RV501	1-226-703-00	s	VAR,METAL 10K
RV502	1-226-703-00	s	VAR,METAL 10K
RV503	1-226-773-00	s	VAR,METAL 22K
RV504	1-226-703-00	s	VAR,METAL 10K
RV505	1-226-703-00	s	VAR,METAL 10K
RV506	1-226-703-00	s	VAR,METAL 10K
X701	1-567-147-11	s	VCO,10.664135MHz

CL-7 BOARD

	1-608-052-00	o	PRINTED CIRCUIT BOARD,CL-7

CP-61 BOARD

	A-6713-190-A	o	MOUNTED CIRCUIT BOARD,CP-61
C1	1-108-555-00	s	MYLAR 0.001 5% 50V
C2	1-107-169-00	s	MICA 100PF 5% 500V
C3	1-107-210-00	s	MICA 22PF 5% 500V
C5	1-123-830-00	s	ELECT 4.7 20% 50V
C6	1-108-595-00	s	MYLAR 0.047 5% 50V
C7	1-108-595-00	s	MYLAR 0.047 5% 50V
C8	1-107-169-00	s	MICA 100PF 5% 500V
C9	1-107-169-00	s	MICA 100PF 5% 500V
C10	1-108-595-00	s	MYLAR 0.047 5% 50V
C11	1-108-595-00	s	MYLAR 0.047 5% 50V
C16	1-123-324-00	s	ELECT 1000 20% 16V
C17	1-123-324-00	s	ELECT 1000 20% 16V
C101	1-108-555-00	s	MYLAR 0.001 5% 50V
C102	1-107-169-00	s	MICA 100PF 5% 500V
C103	1-107-210-00	s	MICA 22PF 5% 500V
C105	1-123-830-00	s	ELECT 4.7 20% 50V
C201	1-102-108-00	s	CERAMIC 150PF 10% 50V
C202	1-107-210-00	s	MICA 22PF 5% 500V
C205	1-108-595-00	s	MYLAR 0.047 5% 50V
C206	1-108-595-00	s	MYLAR 0.047 5% 50V
C209	1-107-169-00	s	MICA 100PF 5% 500V
C210	1-107-169-00	s	MICA 100PF 5% 500V
C213	1-108-595-00	s	MYLAR 0.047 5% 50V
C214	1-108-595-00	s	MYLAR 0.047 5% 50V
C301	1-102-108-00	s	CERAMIC 150PF 10% 50V
C302	1-107-210-00	s	MICA 22PF 5% 500V
C305	1-108-595-00	s	MYLAR 0.047 5% 50V
C306	1-108-595-00	s	MYLAR 0.047 5% 50V
C309	1-107-169-00	s	MICA 100PF 5% 500V
C310	1-107-169-00	s	MICA 100PF 5% 500V
C313	1-108-595-00	s	MYLAR 0.047 5% 50V
C314	1-108-595-00	s	MYLAR 0.047 5% 50V
C401	1-102-108-00	s	CERAMIC 150PF 10% 50V
C402	1-107-210-00	s	MICA 22PF 5% 500V
C405	1-108-595-00	s	MYLAR 0.047 5% 50V
C406	1-108-595-00	s	MYLAR 0.047 5% 50V
C409	1-107-169-00	s	MICA 100PF 5% 500V
C410	1-107-169-00	s	MICA 100PF 5% 500V
C413	1-108-595-00	s	MYLAR 0.047 5% 50V
C414	1-108-595-00	s	MYLAR 0.047 5% 50V
D1	8-719-200-46	s	10YD4.5A
D101	8-719-200-46	s	10YD4.5A
D201	8-719-911-19	s	1SS119
D202	8-719-911-19	s	1SS119
D203	8-719-200-02	s	10E-2
D204	8-719-200-02	s	10E-2
D301	8-719-911-19	s	1SS119
D302	8-719-911-19	s	1SS119
D401	8-719-911-19	s	1SS119
D402	8-719-911-19	s	1SS119
IC1	8-759-700-04	s	NJM2043D-D(JRC)
IC201	8-759-745-61	s	NJM4560D-D(JRC)
IC301	8-759-745-61	s	NJM4560D-D(JRC)
IC401	8-759-745-61	s	NJM4560D-D(JRC)
Q1	8-729-240-01	s	2SK240
Q2	8-729-378-84	s	2SD788
Q3	8-729-373-92	s	2SB739
Q101	8-729-240-01	s	2SK240
Q201	8-729-306-92	s	2SD669A
Q202	8-729-304-92	s	2SB649A
Q203	8-729-201-05	s	2SC2878-B
Q204	8-729-173-37	s	2SA733-P
Q205	8-729-378-84	s	2SD788
Q206	8-729-373-92	s	2SB739
Q301	8-729-306-92	s	2SD669A
Q302	8-729-304-92	s	2SB649A
Q303	8-729-201-05	s	2SC2878-B
Q304	8-729-173-37	s	2SA733-P
Q305	8-729-378-84	s	2SD788
Q306	8-729-373-92	s	2SB739
Q401	8-729-306-92	s	2SD669A
Q402	8-729-304-92	s	2SB649A
Q403	8-729-201-05	s	2SC2878-B
Q404	8-729-173-37	s	2SA733-P
Q405	8-729-378-84	s	2SD788
Q406	8-729-373-92	s	2SB739
Q407	8-729-201-05	s	2SC2878-B
Q408	8-729-173-37	s	2SA733-P
R13	1-247-192-00	s	CARBON 10 5% 1/2W
R14	1-247-192-00	s	CARBON 10 5% 1/2W
R208	1-247-192-00	s	CARBON 10 5% 1/2W
R209	1-247-192-00	s	CARBON 10 5% 1/2W
R210	1-247-185-00	s	CARBON 2.7 5% 1/2W

Ref.No.	Parts No.	SP	Description
R212	1-247-228-00	s	CARBON 330 5% 1/2W
R213	1-247-228-00	s	CARBON 330 5% 1/2W
R308	1-247-192-00	s	CARBON 10 5% 1/2W
R309	1-247-192-00	s	CARBON 10 5% 1/2W
R310	1-247-185-00	s	CARBON 2.7 5% 1/2W
R312	1-247-228-00	s	CARBON 330 5% 1/2W
R313	1-247-228-00	s	CARBON 330 5% 1/2W
R408	1-247-192-00	s	CARBON 10 5% 1/2W
R409	1-247-192-00	s	CARBON 10 5% 1/2W
R410	1-247-185-00	s	CARBON 2.7 5% 1/2W
R412	1-247-228-00	s	CARBON 330 5% 1/2W
R413	1-247-228-00	s	CARBON 330 5% 1/2W
RV201	1-224-251-XX	s	VAR,METAL 4.7K
RV301	1-224-251-XX	s	VAR,METAL 4.7K
RV401	1-224-251-XX	s	VAR,METAL 4.7K
T1	1-423-226-00	s	INPUT/OUTPUT
T101	1-423-226-00	s	INPUT/OUTPUT
T201	1-423-225-00	s	OUTPUT
T301	1-423-225-00	s	OUTPUT
T401	1-423-225-00	s	OUTPUT

CP-62 BOARD

	A-6715-213-A	o	MOUNTED CIRCUIT BOARD,CP-62
SW1	1-516-576-00	s	SLIDE "75ohm ON/OFF"
SW2	1-516-576-00	s	SLIDE "REF VIDEO"
SW3	1-516-576-00	s	SLIDE "75ohm ON/OFF"

CP-74 BOARD

	1-611-548-14	o	PRINTED CIRCUIT BOARD,CP-74
RV1	1-228-770-00	s	VAR,CARBON 5K "VIDEO"
RV2	1-228-770-00	s	VAR,CARBON 5K "CHROMA"
RV3	1-228-770-00	s	VAR,CARBON 5K "SET UP"
RV4	1-228-770-00	s	VAR,CARBON 5K "Y/C DELAY"
RV6	1-228-770-00	s	VAR,CARBON 5K "SYSTEM PHASE SYNC"
RV7	1-228-770-00	s	VAR,CARBON 5K "SYSTEM PHASE SC"
S1	1-516-226-00	s	SLIDE "PRESET/MANUAL FOR VIDEO"
S2	1-516-226-00	s	SLIDE "PRESET/MANUAL FOR CHROMA"
S3	1-516-226-00	s	SLIDE "PRESET/MANUAL FOR SET UP"
S4	1-516-226-00	s	SLIDE "PRESET/MANUAL FOR Y/C DELAY"
S6	1-516-226-00	s	SLIDE "AUDIO NR"
S7	1-516-226-00	s	SLIDE "VTR CONTROL"
S8	1-516-110-21	s	SLIDE "TBC CONTROL"

DE-11 BOARD

	A-6739-018-A	s	PC BOARD ASS'Y,DM

Ref No.	Parts No.	SP	Description

DEC-13 BOARD

	A-6711-569-A	o	MOUNTED CIRCUIT BOARD,DEC-13
C4	1-107-046-00	s	MICA 4.7PF 0.5PF 500V
C10	1-161-462-00	s	CERAMIC 180PF 5% 50V
C12	1-107-204-00	s	MICA 12PF 5% 500V
C18	1-107-206-00	s	MICA 15PF 5% 500V
C26	1-161-468-00	s	CERAMIC 560PF 5% 50V
C32	1-124-478-11	s	ELECT 100 20% 25V
C34	1-107-202-00	s	MICA 10PF 5% 500V
C35	1-107-048-00	s	MICA 6.8PF 0.5PF 500V
C43	1-107-202-00	s	MICA 10PF 5% 500V
C101	1-124-474-00	s	ELECT 47 20% 16V
C140	1-124-475-11	s	ELECT 470 20% 16V
C142	1-124-475-11	s	ELECT 470 20% 16V
C144	1-124-475-11	s	ELECT 470 20% 16V
C146	1-124-475-11	s	ELECT 470 20% 16V
C163	1-107-202-00	s	MICA 10PF 5% 500V
C166	1-161-463-00	s	CERAMIC 220PF 5% 50V
C201	1-107-047-00	s	MICA 5.6PF 0.5PF 500V
D1	8-719-911-19	s	1SS119
D2	8-719-911-19	s	1SS119
D3	8-719-911-19	s	1SS119
D4	8-719-911-19	s	1SS119
D5	8-719-911-19	s	1SS119
D6	8-719-911-19	s	1SS119
D7	8-719-911-19	s	1SS119
D8	8-719-911-19	s	1SS119
D9	8-719-911-19	s	1SS119
D10	8-719-911-19	s	1SS119
D11	8-719-911-19	s	1SS119
D12	8-719-911-19	s	1SS119
D13	8-719-911-19	s	1SS119
D14	8-719-911-19	s	1SS119
D15	8-719-911-19	s	1SS119
D16	8-719-911-19	s	1SS119
D17	8-719-911-19	s	1SS119
DL1	1-415-168-00	s	200ns
DL3	1-415-198-00	s	1H
DL4	1-415-184-00	s	100ns
DL5	1-415-168-00	s	200ns
IC1	8-749-936-51	s	BX365A(SONY)
IC2	8-749-936-51	s	BX365A(SONY)
IC4	8-749-936-51	s	BX365A(SONY)
IC5	8-759-200-60	s	TA7060AP(TOSHIBA)
IC6	8-749-936-51	s	BX365A(SONY)
IC7	8-759-200-60	s	TA7060AP(TOSHIBA)
IC8	8-759-708-09	s	NJM78L09A(JRC)
IC10	8-759-201-47	s	TA737AP(TOSHIBA)
IC11	8-759-990-84	s	TL084CN(TI)
IC12	8-759-906-07	s	TL607CP(TI)
IC13	8-759-015-95	s	MC1595L(MOTOROLA)
IC14	8-759-990-84	s	TL084CN(TI)
IC15	8-759-906-07	s	TL607CP(TI)
IC16	8-759-902-21	s	SN74LS221N(TI)
IC17	8-759-900-74	s	SN74LS74AN(TI)
IC18	8-759-902-21	s	SN74LS221N(TI)
IC19	8-759-902-21	s	SN74LS221N(TI)

Ref No.	Parts No.	SP	Description
L200	1-108-414-00	s	27
LV1	1-407-571-00	s	VAR,22uH
LV2	1-407-571-00	s	VAR,22uH
LV3	1-407-571-00	s	VAR,22uH
LV4	1-407-568-00	s	VAR,6.8uH
Q1	8-729-603-30	s	2SC403SP
Q2	8-729-603-30	s	2SC403SP
Q3	8-729-384-48	s	2SA844
Q4	8-729-384-48	s	2SA844
Q5	8-729-603-30	s	2SC403SP
Q6	8-729-603-30	s	2SC403SP
Q8	8-729-603-30	s	2SC403SP
Q9	8-729-603-30	s	2SC403SP
Q10	8-729-603-30	s	2SC403SP
Q11	8-729-384-48	s	2SA844
Q12	8-729-364-12	s	2SC641K
Q13	8-729-384-48	s	2SA844
Q14	8-729-384-48	s	2SA844
Q15	8-729-603-30	s	2SC403SP
Q16	8-729-603-30	s	2SC403SP
Q17	8-729-201-04	s	2SC2878
Q18	8-729-201-04	s	2SC2878
Q19	8-729-384-48	s	2SA844
Q20	8-729-603-30	s	2SC403SP
Q21	8-729-112-06	s	2SA1206
Q22	8-729-603-30	s	2SC403SP
Q23	8-729-112-06	s	2SA1206
Q24	8-729-603-30	s	2SC403SP
Q25	8-729-603-30	s	2SC403SP
Q26	8-729-603-30	s	2SC403SP
Q27	8-729-603-30	s	2SC403SP
Q28	8-729-384-48	s	2SA844
R4	1-215-414-00	s	METAL 510 1% 1/6W
R5	1-215-423-00	s	METAL 1.2K 1% 1/6W
R6	1-215-435-00	s	METAL 3.9 1% 1/6W
R7	1-215-379-00	s	METAL 100 1% 1/6W
R8	1-215-414-00	s	METAL 510 1% 1/6W
R10	1-215-410-00	s	METAL 360 1% 1/6W
R14	1-215-428-00	s	METAL 2K 1% 1/6W
R20	1-215-413-00	s	METAL 470 1% 1/6W
R21	1-215-394-00	s	METAL 75 1% 1/6W
R32	1-215-432-00	s	METAL 3K 1% 1/6W
R33	1-215-439-00	s	METAL 5.6K 1% 1/6W
R34	1-215-432-00	s	METAL 3K 1% 1/6W
R35	1-215-423-00	s	METAL 1.2K 1% 1/6W
R38	1-215-411-00	s	METAL 390 1% 1/6W
R39	1-215-411-00	s	METAL 390 1% 1/6W
R45	1-215-394-00	s	METAL 75 1% 1/6W
R46	1-215-410-00	s	METAL 360 1% 1/6W
R47	1-215-410-00	s	METAL 360 1% 1/6W
R52	1-215-394-00	s	METAL 75 1% 1/6W
R56	1-215-394-00	s	METAL 75 1% 1/6W
R68	1-215-440-00	s	METAL 6.2K 1% 1/6W
R70	1-215-428-00	s	METAL 2K 1% 1/6W
R71	1-215-408-00	s	METAL 300 1% 1/6W
R72	1-215-428-00	s	METAL 2K 1% 1/6W
R73	1-215-462-00	s	METAL 1.6K 1% 1/6W

Ref No.	Parts No.	SP	Description
R75	1-215-421-00	s	METAL 1K 1% 1/6W
R99	1-215-476-00	s	METAL 200K 1% 1/6W
R116	1-215-428-00	s	METAL 2K 1% 1/6W
R117	1-215-441-00	s	METAL 6.8K 1% 1/6W
R118	1-215-432-00	s	METAL 3K 1% 1/6W
R123	1-215-428-00	s	METAL 2K 1% 1/6W
R124	1-215-465-00	s	METAL 68K 1% 1/6W
R139	1-215-421-00	s	METAL 1K 1% 1/6W
R140	1-215-420-00	s	METAL 910 1% 1/6W
R141	1-215-421-00	s	METAL 1K 1% 1/6W
R142	1-215-420-00	s	METAL 910 1% 1/6W
R143	1-215-413-00	s	METAL 470 1% 1/6W
R144	1-215-421-00	s	METAL 1K 1% 1/6W
R145	1-215-420-00	s	METAL 910 1% 1/6W
R146	1-215-413-00	s	METAL 470 1% 1/6W
R147	1-215-429-00	s	METAL 2.2K 1% 1/6W
R149	1-215-429-00	s	METAL 2.2K 1% 1/6W
R150	1-215-429-00	s	METAL 2.2K 1% 1/6W
R151	1-215-410-00	s	METAL 360 1% 1/6W
RV1	1-224-940-00	s	VAR,CERMET 10K
RV2	1-224-939-00	s	VAR,CERMET 5K
RV3	1-224-938-00	s	VAR,CERMET 2K
RV5	1-224-937-00	s	VAR,CERMET 1K
RV7	1-224-940-00	s	VAR,CERMET 10K
RV8	1-224-940-00	s	VAR,CERMET 10K
RV9	1-224-938-00	s	VAR,CERMET 2K
RV10	1-224-941-00	s	VAR,CERMET 20K
RV11	1-224-938-00	s	VAR,CERMET 2K
RV12	1-224-937-00	s	VAR,CERMET 1K
RV13	1-224-937-00	s	VAR,CERMET 1K

DEC-14 BOARD

	A-6711-570-A	o	MOUNTED CIRCUIT BOARD,DEC-14
C1	1-107-204-00	s	MICA 12PF 5% 500V
C2	1-107-165-00	s	MICA 56PF 5% 500V
C3	1-107-204-00	s	MICA 12PF 5% 500V
C4	1-107-204-00	s	MICA 12PF 5% 500V
C7	1-161-015-00	s	CERAMIC 0.015 10% 25V
C8	1-161-015-00	s	CERAMIC 0.015 10% 25V
C101	1-123-821-00	s	ELECT 47 20% 16V
C102	1-123-821-00	s	ELECT 47 20% 16V
C103	1-123-821-00	s	ELECT 47 20% 16V
C105	1-123-821-00	s	ELECT 47 20% 16V
C107	1-123-821-00	s	ELECT 47 20% 16V
C109	1-123-821-00	s	ELECT 47 20% 16V
C131	1-123-821-00	s	ELECT 47 20% 16V
C132	1-124-475-11	s	ELECT 470 20% 16V
C134	1-124-475-11	s	ELECT 470 20% 16V
C136	1-124-475-11	s	ELECT 470 20% 16V
C138	1-124-475-11	s	ELECT 470 20% 16V
C142	1-123-821-00	s	ELECT 47 20% 16V
C143	1-123-821-00	s	ELECT 47 20% 16V
C201	1-123-617-00	s	ELECT 10 20% 16V
C206	1-161-461-00	s	CERAMIC 150PF 5% 50V
C214	1-107-208-00	s	MICA 18PF 5% 500V
C215	1-107-049-00	s	MICA 8.2PF 0.5PF 500V
C217	1-107-210-00	s	MICA 22PF 5% 500V
C301	1-123-821-00	s	ELECT 47 20% 16V

Ref No.	Parts No.	SP	Description
C303	1-123-821-00	s	ELECT 47 20% 16V
C305	1-123-617-00	s	ELECT 10 20% 16V
C307	1-123-821-00	s	ELECT 47 20% 16V
C310	1-123-617-00	s	ELECT 10 20% 16V
C311	1-123-821-00	s	ELECT 47 20% 16V
C313	1-123-821-00	s	ELECT 47 20% 16V
C315	1-123-821-00	s	ELECT 47 20% 16V
C317	1-123-821-00	s	ELECT 47 20% 16V
C319	1-123-821-00	s	ELECT 47 20% 16V
C322	1-123-821-00	s	ELECT 47 20% 16V
C401	1-124-445-00	s	ELECT 100 20% 16V
C403	1-124-445-00	s	ELECT 100 20% 16V
C405	1-124-445-00	s	ELECT 100 20% 16V
C407	1-123-821-00	s	ELECT 47 20% 16V
C408	1-123-611-00	s	ELECT 1 20% 50V
C420	1-109-670-00	s	MICA 75PF 5% 50V
C421	1-124-445-00	s	ELECT 100 20% 16V
C429	1-161-463-00	s	CERAMIC 220PF 5% 50V
C430	1-107-204-00	s	MICA 12PF 5% 400V
C433	1-107-202-00	s	MICA 10PF 5% 500V
C437	1-123-617-00	s	ELECT 10 20% 16V
C438	1-124-445-00	s	ELECT 100 20% 16V
C439	1-161-463-00	s	CERAMIC 220PF 5% 50V
C441	1-124-445-00	s	ELECT 100 20% 16V
C443	1-124-445-00	s	ELECT 100 20% 16V
C446	1-124-445-00	s	ELECT 100 20% 16V
C447	1-124-445-00	s	ELECT 100 20% 16V
C451	1-124-445-00	s	ELECT 100 20% 16V
C453	1-124-445-00	s	ELECT 100 20% 16V
C455	1-124-445-00	s	ELECT 100 20% 16V
C457	1-123-821-00	s	ELECT 47 20% 16V
C458	1-123-611-00	s	ELECT 1 20% 50V
C470	1-109-670-00	s	MICA 75PF 5% 50V
C471	1-124-445-00	s	ELECT 100 20% 16V
C479	1-161-463-00	s	CERAMIC 220PF 5% 50V
C480	1-107-204-00	s	MICA 12PF 5% 500V
C483	1-107-202-00	s	MICA 10PF 5% 500V
C484	1-124-363-00	s	ELECT 330 20% 10V
C487	1-124-445-00	s	ELECT 100 20% 16V
C488	1-161-463-00	s	CERAMIC 220PF 5% 50V
C490	1-124-445-00	s	ELECT 100 20% 16V
C492	1-124-445-00	s	ELECT 100 20% 16V
C496	1-124-445-00	s	ELECT 100 20% 16V
C497	1-124-445-00	s	ELECT 100 20% 16V
C502	1-109-686-00	s	MICA 360PF 1% 500V
C503	1-109-686-00	s	MICA 360PF 1% 500V
CF1	1-527-497-00	s	4.55MHz
D1	8-719-815-87	s	1S1587
D201	8-719-915-30	s	FC53M
D401	8-719-104-10	s	1SS99
D402	8-719-104-10	s	1SS99
D403	8-719-104-10	s	1SS99
D404	8-719-104-10	s	1SS99
DL1	1-415-168-00	s	200ns

Ref No.	Parts No.	SP	Description
IC1	8-749-936-51	s	BX365A(SONY)
IC2	8-759-708-07	s	NJM78L09A(JRC)
IC3	8-759-952-07	s	SN75207BN(TI)
IC15	8-759-901-23	s	SN74LS123N(TI)
IC16	8-759-220-00	s	TC40H000P(TOSHIBA)
IC201	8-757-903-00	s	CX7903(SONY)
IC202	8-759-990-82	s	TL082CP(TI)
IC203	8-757-731-00	s	CX773A(SONY)
IC204	8-759-902-21	s	SN74LS221N(TI)
IC205	8-759-902-21	s	SN74LS221N(TI)
IC206	8-759-220-74	s	TC40H074P(TOSHIBA)
IC207	8-759-220-74	s	TC40H074P(TOSHIBA)
IC208	8-759-220-74	s	TC40H074P(TOSHIBA)
IC209	8-759-220-74	s	TC40H074P(TOSHIBA)
IC210	8-759-902-21	s	SN74LS221N(TI)
IC211	8-759-220-74	s	TC40H074P(TOSHIBA)
IC212	8-759-990-82	s	TL082CP(TI)
IC213	8-759-220-00	s	TC40H000P(TOSHIBA)
IC214	8-759-220-00	s	TC40H000P(TOSHIBA)
IC215	8-759-220-00	s	TC40H000P(TOSHIBA)
IC216	8-759-202-11	s	TC74HC00P(TOSHIBA)
IC217	8-759-220-00	s	TC40H000P(TOSHIBA)
IC401	8-759-240-53	s	TC4053BP(TOSHIBA)
IC402	8-759-200-60	s	TA7060AP(TOSHIBA)
IC403	8-759-324-11	s	HA12411(HITACHI)
IC404	8-759-240-53	s	TC4053BP(TOSHIBA)
IC405	8-749-936-51	s	BX365A(SONY)
IC406	8-759-240-53	s	TC4053BP(TOSHIBA)
IC407	8-759-200-60	s	TA7060AP(TOSHIBA)
IC408	8-759-324-11	s	HA12411(HITACHI)
IC410	8-749-936-51	s	BX365A(SONY)
L120	1-459-155-00	s	45
L121	1-459-155-00	s	45
L122	1-459-155-00	s	45
L123	1-459-155-00	s	45
Q1	8-729-603-30	s	2SC403SP
Q15	8-729-384-48	s	2SA844
Q16	8-729-603-30	s	2SC403SP
Q17	8-729-603-30	s	2SC403SP
Q18	8-729-603-30	s	2SC403SP
Q19	8-729-384-48	s	2SA844
Q401	8-729-603-50	s	2SC403SP
Q402	8-729-603-50	s	2SC403SP
Q403	8-729-603-50	s	2SC403SP
Q404	8-729-603-50	s	2SC403SP
Q405	8-729-384-48	s	2SA844
Q406	8-729-603-50	s	2SC403SP
Q407	8-729-201-04	s	2SC2878
Q408	8-729-110-53	s	2SA1005
Q409	8-729-603-50	s	2SC403SP
Q410	8-729-603-50	s	2SC403SP
Q411	8-729-603-50	s	2SC403SP
Q412	8-729-603-50	s	2SC403SP
Q413	8-729-384-48	s	2SA844
Q414	8-729-603-50	s	2SC403SP
Q415	8-729-201-04	s	2SC2878
Q416	8-729-110-53	s	2SA1005

Ref No.	Parts No.	SP	Description
R4	1-215-410-00	s	METAL 360 1% 1/6W
R50	1-215-394-00	s	METAL 75 1% 1/6W
R213	1-215-445-00	s	METAL 10K 1% 1/6W
R214	1-215-458-00	s	METAL 36K 1% 1/6W
R215	1-215-448-00	s	METAL 13K 1% 1/6W
R216	1-215-445-00	s	METAL 10K 1% 1/6W
R221	1-215-433-00	s	METAL 3.3K 1% 1/6W
R225	1-215-444-00	s	METAL 9.1K 1% 1/6W
R226	1-215-437-00	s	METAL 4.7K 1% 1/6W
R227	1-215-437-00	s	METAL 4.7K 1% 1/6W
R229	1-215-409-00	s	METAL 330 1% 1/6W
R403	1-215-413-00	s	METAL 470 1% 1/6W
R410	1-215-411-00	s	METAL 390 1% 1/6W
R411	1-215-411-00	s	METAL 390 1% 1/6W
R415	1-215-429-00	s	METAL 2.2K 1% 1/6W
R417	1-215-425-00	s	METAL 1.5K 1% 1/6W
R422	1-215-461-00	s	METAL 47K 1% 1/6W
R423	1-215-421-00	s	METAL 1K 1% 1/6W
R424	1-215-399-00	s	METAL 120 1% 1/6W
R425	1-215-427-00	s	METAL 1.8K 1% 1/6W
R426	1-215-407-00	s	METAL 270 1% 1/6W
R429	1-215-397-00	s	METAL 100 1% 1/6W
R433	1-215-413-00	s	METAL 470 1% 1/6W
R440	1-215-411-00	s	METAL 390 1% 1/6W
R441	1-215-411-00	s	METAL 390 1% 1/6W
R451	1-215-461-00	s	METAL 47K 1% 1/6W
R452	1-215-421-00	s	METAL 1K 1% 1/6W
R453	1-215-399-00	s	METAL 120 1% 1/6W
R454	1-215-427-00	s	METAL 1.8K 1% 1/6W
R455	1-215-407-00	s	METAL 270 1% 1/6W
R458	1-215-394-00	s	METAL 75 1% 1/6W
R502	1-215-432-00	s	METAL 3K 1% 1/6W
R503	1-215-432-00	s	METAL 3K 1% 1/6W
R504	1-215-401-00	s	METAL 150 1% 1/6W
R505	1-215-401-00	s	METAL 150 1% 1/6W
RV1	1-224-937-00	s	VAR,CERMET 1K
RV8	1-224-938-00	s	VAR,CERMET 2K
RV9	1-224-938-00	s	VAR,CERMET 2K
RV10	1-224-937-00	s	VAR,CERMET 1K
RV201	1-224-942-00	s	VAR,CERMET 50K
RV202	1-224-938-00	s	VAR,CERMET 2K
RV203	1-224-938-00	s	VAR,CERMET 2K
RV204	1-224-940-00	s	VAR,CERMET 10K
RV401	1-224-939-00	s	VAR,CERMET 5K
RV402	1-224-938-00	s	VAR,CERMET 2K
RV403	1-224-939-00	s	VAR,CERMET 5K
RV404	1-224-937-00	s	VAR,CERMET 1K
RV405	1-224-939-00	s	VAR,CERMET 5K
RV406	1-224-938-00	s	VAR,CERMET 2K
RV407	1-224-939-00	s	VAR,CERMET 5K
RV408	1-224-937-00	s	VAR,CERMET 1K
RV503	1-224-940-00	s	VAR,CERMET 10K

Ref No.	Parts No.	SP	Description
EN-34 BOARD			
	A-6711-568-A	o	MOUNTED CIRCUIT BOARD,EN-34
C6	1-123-616-00	s	ELECT 4.7 20% 25V
C7	1-123-616-00	s	ELECT 4.7 20% 25V
C8	1-161-013-00	s	CERAMIC 0.01 10% 25V
C9	1-161-013-00	s	CERAMIC 0.01 10% 25V
C10	1-161-013-00	s	CERAMIC 0.01 10% 25V
C11	1-123-617-00	s	ELECT 10 20% 16V
C12	1-123-821-00	s	ELECT 47 20% 16V
C13	1-161-013-00	s	CERAMIC 0.01 10% 25V
C14	1-107-159-00	s	MICA 33PF 5% 500V
C16	1-107-157-00	s	MICA 27PF 5% 500V
C18	1-107-157-00	s	MICA 27PF 5% 500V
C19	1-123-617-00	s	ELECT 10 20% 16V
C26	1-123-616-00	s	ELECT 4.7 20% 25V
C27	1-161-013-00	s	CERAMIC 0.01 10% 25V
C28	1-161-013-00	s	CERAMIC 0.01 10% 25V
C29	1-161-013-00	s	CERAMIC 0.01 10% 25V
C30	1-123-617-00	s	ELECT 10 20% 16V
C31	1-123-617-00	s	ELECT 10 20% 16V
C32	1-161-013-00	s	CERAMIC 0.01 10% 25V
C33	1-161-013-00	s	CERAMIC 0.01 10% 25V
C34	1-123-617-00	s	ELECT 10 20% 16V
C36	1-124-119-00	s	ELECT 330 20% 16V
C37	1-124-119-00	s	ELECT 330 20% 16V
C40	1-123-821-00	s	ELECT 47 20% 16V
C41	1-123-617-00	s	ELECT 10 20% 16V
C42	1-107-211-00	s	MICA 24PF 5% 500V
C43	1-107-211-00	s	MICA 24PF 5% 500V
C45	1-123-617-00	s	ELECT 10 20% 16V
C46	1-123-617-00	s	ELECT 10 20% 16V
C47	1-107-211-00	s	MICA 24PF 5% 500V
C48	1-107-211-00	s	MICA 24PF 5% 500V
C50	1-123-617-00	s	ELECT 10 20% 16V
C52	1-123-821-00	s	ELECT 47 20% 16V
C53	1-123-822-00	s	ELECT 47 20% 10V
C54	1-123-822-00	s	ELECT 47 20% 10V
C55	1-123-617-00	s	ELECT 10 20% 16V
C59	1-123-617-00	s	ELECT 10 20% 16V
C67	1-123-821-00	s	ELECT 47 20% 16V
C69	1-123-821-00	s	ELECT 47 20% 16V
C72	1-123-617-00	s	ELECT 10 20% 16V
C73	1-123-822-00	s	ELECT 47 20% 10V
C76	1-123-821-00	s	ELECT 47 20% 16V
C78	1-123-821-00	s	ELECT 47 20% 16V
C79	1-123-821-00	s	ELECT 47 20% 16V
C81	1-123-821-00	s	ELECT 47 20% 16V
C83	1-123-821-00	s	ELECT 47 20% 16V
C85	1-123-822-00	s	ELECT 47 20% 10V
C89	1-123-821-00	s	ELECT 47 20% 16V
C92	1-123-821-00	s	ELECT 47 20% 16V
C94	1-123-821-00	s	ELECT 47 20% 16V
C95	1-123-822-00	s	ELECT 47 20% 10V
C96	1-123-822-00	s	ELECT 47 20% 10V
C97	1-123-822-00	s	ELECT 47 20% 10V
C98	1-123-822-00	s	ELECT 47 20% 10V
C99	1-123-822-00	s	ELECT 47 20% 10V
C100	1-123-822-00	s	ELECT 47 20% 10V
C101	1-123-617-00	s	ELECT 10 20% 16V
C102	1-123-821-00	s	ELECT 47 20% 16V
C105	1-123-821-00	s	ELECT 47 20% 16V
C107	1-123-821-00	s	ELECT 47 20% 16V

Ref No.	Parts No.	SP	Description
C108	1-123-617-00	s	ELECT 10 20% 16V
C109	1-123-821-00	s	ELECT 47 20% 16V
C111	1-123-616-00	s	ELECT 4.7 20% 25V
C116	1-123-617-00	s	ELECT 10 20% 16V
C117	1-123-821-00	s	ELECT 47 20% 16V
C119	1-107-159-00	s	MICA 33PF 5% 500V
C120	1-123-622-00	s	ELECT 22 20% 16V
C121	1-123-617-00	s	ELECT 10 20% 16V
C130	1-107-158-00	s	MICA 30PF 5% 500V
C160	1-123-616-00	s	ELECT 4.7 20% 25V
C164	1-107-049-00	s	MICA 8.2PF 0.5PF 500V
C301	1-123-822-00	s	ELECT 47 20% 10V
C302	1-106-172-00	s	MYLAR 0.001 5% 50V
C304	1-161-023-00	s	CERAMIC 0.068 10% 25V
C305	1-123-617-00	s	ELECT 10 20% 16V
C306	1-123-644-00	s	ELECT 22 20% 1V
C307	1-123-822-00	s	ELECT 47 20% 10V
C308	1-123-821-00	s	ELECT 47 20% 16V
C311	1-123-617-00	s	ELECT 10 20% 16V
C312	1-123-617-00	s	ELECT 10 20% 16V
C313	1-123-617-00	s	ELECT 10 20% 16V
C314	1-109-686-00	s	MICA 360PF 1% 500V
C316	1-123-617-00	s	ELECT 10 20% 16V
C317	1-123-822-00	s	ELECT 47 20% 10V
C318	1-124-472-11	s	ELECT 470 20% 10V
C320	1-123-822-00	s	ELECT 47 20% 10V
C322	1-106-172-00	s	MYLAR 0.001 5% 50V
C324	1-106-172-00	s	MYLAR 0.001 5% 50V
C326	1-161-023-00	s	CERAMIC 0.068 10% 25V
C327	1-123-617-00	s	ELECT 10 20% 16V
C330	1-123-821-00	s	ELECT 47 20% 16V
C334	1-123-821-00	s	ELECT 47 20% 16V
C336	1-123-821-00	s	ELECT 47 20% 16V
C339	1-123-617-00	s	ELECT 10 20% 16V
C340	1-123-617-00	s	ELECT 10 20% 16V
C341	1-123-822-00	s	ELECT 47 20% 10V
C342	1-161-023-00	s	CERAMIC 0.068 10% 25V
C343	1-123-617-00	s	ELECT 10 20% 16V
C344	1-123-644-00	s	ELECT 22 20% 10V
C345	1-123-822-00	s	ELECT 47 20% 10V
C346	1-123-821-00	s	ELECT 47 20% 16V
C347	1-123-822-00	s	ELECT 47 20% 10V
C348	1-109-686-00	s	MICA 360PF 1% 500V
C349	1-123-617-00	s	ELECT 10 20% 16V
C350	1-123-617-00	s	ELECT 10 20% 16V
C352	1-123-617-00	s	ELECT 10 20% 16V
C353	1-124-472-11	s	ELECT 470 20% 10V
C354	1-161-013-00	s	CERAMIC 0.01 10% 25V
C356	1-123-617-00	s	ELECT 10 20% 16V
C357	1-106-172-00	s	MYLAR 0.001 5% 50V
C359	1-123-822-00	s	ELECT 47 20% 10V
C360	1-123-822-00	s	ELECT 47 20% 10V
C361	1-106-172-00	s	MYLAR 0.001 5% 50V
C363	1-123-617-00	s	ELECT 10 20% 16V
C364	1-161-023-00	s	CERAMIC 0.068 10% 25V
C365	1-123-617-00	s	ELECT 10 20% 16V
C366	1-161-013-00	s	CERAMIC 0.01 10% 25V
C368	1-107-042-00	s	MICA 2.2PF 0.5PF 500V
C372	1-161-013-00	s	CERAMIC 0.01 10% 25V
C376	1-107-157-00	s	MICA 27PF 5% 500V
C380	1-123-644-00	s	ELECT 22 20% 10V
C383	1-161-013-00	s	CERAMIC 0.01 10% 25V
C384	1-123-822-00	s	ELECT 47 20% 10V
C385	1-123-822-00	s	ELECT 47 20% 10V
C389	1-161-013-00	s	CERAMIC 0.01 10% 25V

Ref No.	Parts No.	SP	Description
C391	1-123-822-00	s	ELECT 47 20% 10V
C392	1-123-822-00	s	ELECT 47 20% 10V
C398	1-123-822-00	s	ELECT 47 20% 10V
C400	1-123-821-00	s	ELECT 47 20% 16V
C403	1-123-821-00	s	ELECT 47 20% 16V
C501	1-123-821-00	s	ELECT 47 20% 16V
C503	1-123-821-00	s	ELECT 47 20% 16V
C506	1-124-475-11	s	ELECT 470 20% 16V
C508	1-124-472-11	s	ELECT 470 20% 10V
C509	1-123-821-00	s	ELECT 47 20% 16V
C511	1-123-821-00	s	ELECT 47 20% 16V
C512	1-123-617-00	s	ELECT 10 20% 16V
C513	1-124-473-11	s	ELECT 1000 20% 10V
C519	1-161-013-00	s	CERAMIC 0.01 10% 25V
C521	1-123-821-00	s	ELECT 47 20% 16V
C522	1-123-821-00	s	ELECT 47 20% 16V
C524	1-107-157-00	s	MICA 27PF 5% 500V
C525	1-161-461-00	s	CERAMIC 150PF 5% 50V
C532	1-107-159-00	s	MICA 33PF 5% 500V
C535	1-123-617-00	s	ELECT 10 20% 16V
C537	1-123-617-00	s	ELECT 10 20% 16V
C538	1-124-472-11	s	ELECT 470 20% 10V
C539	1-123-617-00	s	ELECT 10 20% 16V
C541	1-123-617-00	s	ELECT 10 20% 16V
C552	1-107-210-00	s	MICA 22PF 5% 500V
C608	1-123-822-00	s	ELECT 47 20% 10V
C609	1-123-821-00	s	ELECT 47 20% 16V
C610	1-123-821-00	s	ELECT 47 20% 16V
C613	1-123-821-00	s	ELECT 47 20% 16V
C614	1-123-821-00	s	ELECT 47 20% 16V
C630	1-123-821-00	s	ELECT 47 20% 16V
C634	1-123-821-00	s	ELECT 47 20% 16V
C635	1-107-157-00	s	MICA 27PF 5% 500V
C643	1-107-207-00	s	MICA 16PF 5% 500V
C701	1-123-622-00	s	ELECT 22 20% 16V
C703	1-123-622-00	s	ELECT 22 20% 16V
C706	1-123-617-00	s	ELECT 10 20% 16V
C707	1-123-617-00	s	ELECT 10 20% 16V
C708	1-123-821-00	s	ELECT 47 20% 16V
C710	1-107-159-00	s	MICA 33PF 5% 500V
C712	1-123-821-00	s	ELECT 47 20% 16V
C728	1-123-622-00	s	ELECT 22 20% 16V
C730	1-123-622-00	s	ELECT 22 20% 16V
C733	1-123-617-00	s	ELECT 10 20% 16V
C734	1-123-617-00	s	ELECT 10 20% 16V
C735	1-123-821-00	s	ELECT 47 20% 16V
C737	1-123-821-00	s	ELECT 47 20% 16V
C739	1-107-159-00	s	MICA 33PF 5% 500V
C747	1-106-172-00	s	MYLAR 0.001 5% 50V
C749	1-123-821-00	s	ELECT 47 20% 16V
C808	1-161-469-00	s	CERAMIC 680PF 5% 50V
C809	1-161-469-00	s	CERAMIC 680PF 5% 50V
C902	1-124-473-11	s	ELECT 1000 20% 10V
C904	1-124-555-00	s	ELECT 1000 20% 16V
C906	1-124-473-11	s	ELECT 1000 20% 10V
C908	1-124-555-00	s	ELECT 1000 20% 16V
CV601	1-141-240-00	s	20PF
CV602	1-141-240-00	s	20PF

Ref No.	Parts No.	SP	Description
D1	8-719-143-07	s	RD4.3E-B
D2	8-719-143-07	s	RD4.3E-B
D3	8-719-911-19	s	1SS119
D4	8-719-911-19	s	1SS119
D10	8-719-911-19	s	1SS119
D11	8-719-911-19	s	1SS119
D105	8-719-709-25	s	1S1925-P
D301	8-719-815-55	s	1S1555
D302	8-719-911-19	s	1SS119
D303	8-719-911-19	s	1SS119
D304	8-719-911-19	s	1SS119
D501	8-719-709-25	s	1S1925-P
D502	8-719-709-25	s	1S1925-P
D603	8-719-815-55	s	1S1555
D701	8-719-162-07	s	RD6.2E-B
D702	8-719-162-07	s	RD6.2E-B
DL501	1-415-184-00	s	100ns
DL502	1-415-165-00	s	370ns
FL601	1-231-578-00	s	LPF
IC1	8-759-201-40	s	TL8605P(TI)
IC2	8-759-201-40	s	TL8605P(TI)
IC3	8-759-708-08	s	NJM78L08(JRC)
IC4	8-759-906-01	s	TL601CP(TI)
IC5	8-759-240-11	s	TC4011BP(TOSHIBA)
IC301	8-759-902-21	s	SN74LS221N(TI)
IC302	8-759-608-50	s	CX850(SONY)
IC303	8-749-910-10	s	BX1010(SONY)
IC304	8-759-608-52	s	CX852(SONY)
IC305	8-759-700-54	s	NJM7809A(JRC)
IC306	8-759-220-02	s	TC40H002P(TOSHIBA)
IC307	8-759-608-50	s	CX850(SONY)
IC308	8-749-910-10	s	BX1010(SONY)
IC309	8-759-608-52	s	CX852(SONY)
IC310	8-759-608-53	s	CX853(SONY)
IC311	8-759-608-54	s	CX854(SONY)
IC312	8-759-608-55	s	CX855(SONY)
IC313	8-741-118-30	s	BX1183(SONY)
IC314	8-759-907-87	s	CX787(SONY)
IC315	8-759-902-21	s	SN74LS221N(TI)
IC316	8-759-220-04	s	TC40H004P(TOSHIBA)
IC317	8-759-700-28	s	NJM7905A(JRC)
IC318	8-759-906-01	s	TL601CP(TI)
IC319	8-759-906-01	s	TL601CP(TI)
IC321	8-759-700-11	s	NJM78M05A(JRC)
IC501	8-749-938-80	s	BX388(SONY)
IC502	8-749-936-61	s	BX366A(SONY)
IC503	8-749-936-61	s	BX366A(SONY)
IC504	8-759-220 00	s	TC40H000P(TOSHIBA)
IC505	8-759-974-06	s	SN7406N(TI)
IC506	8-749-936-51	s	BX365A(SONY)
IC507	8-752-006-10	s	CX20061(SONY)
IC605	8-749-936-61	s	BX366A(SONY)
IC607	8-749-936-61	s	BX366A(SONY)
IC609	8-759-906-07	s	TL607CP(TI)

Ref No.	Parts No.	SP	Description
IC610	8-759-906-07	s	TL607CP(TI)
IC613	8-741-105-60	s	BX1056(SONY)
IC614	8-749-938-90	s	BX389(SONY)
IC701	8-749-936-51	s	BX365A(SONY)
IC702	8-759-906-01	s	TL601CP(TI)
IC703	8-759-145-57	s	uPC4557C(NEC)
IC704	8-759-602-06	s	M5109P
IC706	8-749-936-51	s	BX365A(SONY)
IC707	8-759-906-01	s	TL601CP(TI)
IC708	8-759-145-57	s	uPC4557C(NEC)
IC709	8-759-602-06	s	M5109P
IC711	8-759-902-21	s	SN74LS221N(TI)
IC713	8-759-951-10	s	SN5110AN(TI)
IC801	8-759-902-21	s	SN74LS221N(TI)
IC802	8-759-902-21	s	SN74LS221N(TI)
IC803	8-759-900-10	s	SN74LS10N(TI)
IC804	8-759-103-19	s	uPC319C(NEC)
IC805	8-759-900-74	s	SN74LS74AN(TI)
L901	1-459-155-00	s	45
L902	1-459-155-00	s	45
L903	1-459-155-00	s	45
L904	1-459-155-00	s	45
LV1	1-407-569-00	s	VAR,10
LV501	1-407-575-00	s	VAR,100
LV502	1-407-571-00	s	VAR,22
Q1	8-729-600-24	s	2SC403C
Q2	8-729-600-24	s	2SC403C
Q3	8-729-110-53	s	2SA1005
Q4	8-729-110-53	s	2SA1005
Q5	8-729-600-24	s	2SA403C
Q6	8-729-612-77	s	2SA1026
Q7	8-729-600-24	s	2SC403C
Q8	8-729-612-77	s	2SA1026
Q9	8-729-600-24	s	2SC403C
Q10	8-729-600-24	s	2SC403C
Q11	8-729-612-77	s	2SA1026
Q12	8-729-600-24	s	2SC403C
Q13	8-729-612-77	s	2SA1026
Q14	8-729-600-24	s	2SC403C
Q15	8-729-612-77	s	2SA1026
Q16	8-729-600-24	s	2SC403C
Q17	8-729-600-24	s	2SC403C
Q18	8-729-600-24	s	2SC403C
Q19	8-729-190-12	s	2SC2901
Q20	8-729-600-24	s	2SC403C
Q21	8-729-190-12	s	2SC2901
Q23	8-729-190-12	s	2SC2901
Q25	8-729-110-53	s	2SA1005
Q27	8-729-110-53	s	2SA1005
Q28	8-729-190-12	s	2SC2901
Q29	8-729-190-12	s	2SC2901
Q30	8-729-190-12	s	2SC2901
Q31	8-729-600-24	s	2SC403C
Q32	8-729-612-77	s	2SA1026
Q33	8-729-110-53	s	2SA1005
Q35	8-729-190-12	s	2SC2901
Q37	8-729-190-12	s	2SC2901
Q38	8-729-110-53	s	2SA1005
Q39	8-729-110-53	s	2SA1005
Q40	8-729-110-53	s	2SA1005

Ref No.	Parts No.	SP	Description
Q41	8-729-110-53	s	2SA1005
Q42	8-729-110-53	s	2SA1005
Q43	8-729-110-53	s	2SA1005
Q44	8-729-190-12	s	2SC2901
Q45	8-729-190-12	s	2SC2901
Q46	8-729-110-53	s	2SA1005
Q47	8-729-190-12	s	2SC2901
Q48	8-729-190-12	s	2SC2901
Q49	8-729-190-12	s	2SC2901
Q50	8-729-110-53	s	2SA1005
Q51	8-729-110-53	s	2SA1005
Q52	8-729-190-12	s	2SC2901
Q53	8-729-600-24	s	2SC403C
Q54	8-729-612-77	s	2SA1026
Q55	8-729-612-77	s	2SA1026
Q56	8-729-600-24	s	2SC403C
Q101	8-729-600-24	s	2SC403C
Q102	8-729-612-77	s	2SA1026
Q301	8-729-600-24	s	2SC403C
Q302	8-729-600-24	s	2SC403C
Q303	8-729-110-53	s	2SA1005
Q304	8-729-600-24	s	2SC403C
Q305	8-729-600-24	s	2SC403C
Q306	8-729-600-24	s	2SC403C
Q307	8-729-110-53	s	2SA1005
Q308	8-729-600-24	s	2SC403C
Q309	8-729-600-24	s	2SC403C
Q310	8-729-110-53	s	2SA1005
Q311	8-729-600-24	s	2SC403C
Q312	8-729-600-24	s	2SC403C
Q313	8-729-600-24	s	2SC403C
Q314	8-729-600-24	s	2SC403C
Q315	8-729-600-24	s	2SC403C
Q317	8-729-600-24	s	2SC403C
Q318	8-729-600-24	s	2SC403C
Q319	8-729-600-24	s	2SC403C
Q320	8-729-600-24	s	2SC403C
Q321	8-729-600-24	s	2SC403C
Q322	8-729-600-24	s	2SC403C
Q501	8-729-600-24	s	2SC403C
Q502	8-729-600-24	s	2SC403C
Q503	8-729-384-48	s	2SA844
Q504	8-729-201-04	s	2SC2878
Q505	8-729-201-04	s	2SC2878
Q506	8-729-201-04	s	2SC2878
Q507	8-729-384-48	s	2SA844
Q508	8-729-600-24	s	2SC403C
Q510	8-729-600-24	s	2SC403C
Q511	8-729-600-24	s	2SC403C
Q512	8-729-600-24	s	2SC403C
Q513	8-729-384-48	s	2SA844
Q514	8-729-600-24	s	2SC403C
Q515	8-729-384-48	s	2SA844
Q601	8-729-173-37	s	2SA733
Q602	8-729-173-37	s	2SA733
Q605	8-729-600-24	s	2SC403C
Q607	8-729-110-53	s	2SA1005
Q609	8-729-600-24	s	2SC403C
Q610	8-729-600-24	s	2SC403C
Q701	8-729-600-24	s	2SC403C
Q703	8-729-600-24	s	2SC403C

Ref No.	Parts No.	SP	Description
RV1	1-224-938-00	s	VAR,CREMET 2K
RV2	1-224-940-00	s	VAR,CERMET 10K
RV3	1-224-941-00	s	VAR,CERMET 20K
RV4	1-224-935-00	s	VAR,CERMET 200
RV5	1-224-941-00	s	VAR,CERMET 20K
RV6	1-224-938-00	s	VAR,CERMET 2K
RV7	1-224-941-00	s	VAR,CERMET 20K
RV8	1-224-941-00	s	VAR,CERMET 20K
RV9	1-224-941-00	s	VAR,CERMET 20K
RV12	1-224-941-00	s	VAR,CERMET 20K
RV13	1-224-941-00	s	VAR,CERMET 20K
RV14	1-224-938-00	s	VAR,CERMET 2K
RV16	1-224-939-00	s	VAR,CERMET 5K
RV121	1-224-943-00	s	VAR,CERMET 100K
RV122	1-224-943-00	s	VAR,CERMET 100K
RV301	1-224-940-00	s	VAR,CERMET 10K
RV302	1-224-937-00	s	VAR,CERMET 1K
RV303	1-224-938-00	s	VAR,CERMET 2K
RV304	1-224-941-00	s	VAR,CERMET 20K
RV305	1-224-937-00	s	VAR,CERMET 1K
RV307	1-224-938-00	s	VAR,CERMET 2K
RV308	1-224-938-00	s	VAR,CERMET 2K
RV309	1-224-941-00	s	VAR,CERMET 20K
RV311	1-224-938-00	s	VAR,CERMET 2K
RV312	1-224-938-00	s	VAR,CERMET 2K
RV313	1-224-936-00	s	VAR,CERMET 500
RV314	1-224-936-00	s	VAR,CERMET 500
RV315	1-224-938-00	s	VAR,CERMET 2K
RV316	1-224-941-00	s	VAR,CERMET 20K
RV318	1-224-940-00	s	VAR,CERMET 10K
RV319	1-224-940-00	s	VAR,CERMET 10K
RV320	1-224-941-00	s	VAR,CERMET 20K
RV501	1-224-937-00	s	VAR,CERMET 1K
RV502	1-224-938-00	s	VAR,CERMET 2K
RV503	1-224-939-00	s	VAR,CERMET 5K
RV504	1-224-937-00	s	VAR,CERMET 1K
RV505	1-224-937-00	s	VAR,CERMET 1K
RV506	1-224-940-00	s	VAR,CERMET 10K
RV602	1-224-937-00	s	VAR,CERMET 1K
RV603	1-224-937-00	s	VAR,CERMET 1K
RV607	1-224-938-00	s	VAR,CERMET 2K
RV701	1-224-940-00	s	VAR,CERMET 10K
RV703	1-224-940-00	s	VAR,CERMET 10K
RV706	1-224-939-00	s	VAR,CERMET 5K
S1	1-552-509-00	s	DIP
S301	1-552-509-00	s	DIP
S302	1-552-509-00	s	DIP
S501	1-552-509-00	s	DIP
S502	1-552-509-00	s	DIP
S503	1-552-509-00	s	DIP
T301	1-235-017-00	s	FILTER,BELL
TH1	1-800-194-11	s	S-90
TH2	1-800-202-XX	s	S-10K
TH301	1-800-069-XX	s	S-1.5K
TH302	1-800-069-XX	s	S-1.5K
TH303	1-806-702-00	s	2700
TH304	1-806-702-00	s	2700
X1	1-567-076-00	s	OSC.,10.700MHz
X601	1-527-373-00	s	OSC.,5.24MHz

Ref.No.	Parts No.	SP	Description
DR-21 BOARD			
	A-6717-357-A	o	MOUNTED CIRCUIT BOARD,DR-21
C4	1-102-106-00	s	CERAMIC 100PF 10% 50V
C50	1-102-114-00	s	CERAMIC 470PF 10% 50V
C74	1-131-344-00	s	ELECT 0.33 10% 25V
C75	1-131-341-00	s	ELECT 0.1 10% 25V
C77	1-131-344-00	s	ELECT 0.33 10% 25V
C80	1-131-344-00	s	ELECT 0.33 10% 25V
C209	1-102-112-00	s	CERAMIC 330PF 10% 50V
C210	1-102-119-00	s	CERAMIC 0.0015 10% 50V
C224	1-101-004-00	s	CERAMIC 0.01 50V
C225	1-101-004-00	s	CERAMIC 0.01 50V
C226	1-101-004-00	s	CERAMIC 0.01 50V
C227	1-101-004-00	s	CERAMIC 0.01 50V
C228	1-101-004-00	s	CERAMIC 0.01 50V
C265	1-131-342-00	s	ELECT 0.15 10% 25V
C266	1-131-342-00	s	ELECT 0.15 10% 25V
C281	1-129-703-00	s	FILM 0.0012 10% 630V
CP1	1-464-139-00	s	BIAS
D1	8-719-911-19	s	1SS119
D2	8-719-911-19	s	1SS119
D3	8-719-911-19	s	1SS119
D4	8-719-911-19	s	1SS119
D5	8-719-911-19	s	1SS119
D6	8-719-911-19	s	1SS119
D7	8-719-911-19	s	1SS119
D8	8-719-911-19	s	1SS119
D9	8-719-911-19	s	1SS119
D10	8-719-911-19	s	1SS119
D11	8-719-911-19	s	1SS119
D12	8-719-911-19	s	1SS119
D13	8-719-911-19	s	1SS119
D14	8-719-168-07	s	RD6.8E-B
D207	8-719-911-19	s	1SS119
D208	8-719-911-19	s	1SS119
D209	8-719-911-19	s	1SS119
D210	8-719-911-19	s	1SS119
D211	8-719-200-02	s	10E-2
D212	8-719-200-02	s	10E-2
D213	8-719-200-02	s	10E-2
D214	8-719-200-02	s	10E-2
D215	8-719-911-19	s	1SS119
D216	8-719-911-19	s	1SS119
D217	8-719-911-19	s	1SS119
D218	8-719-200-02	s	10E-2
D219	8-719-200-02	s	10E-2
D220	8-719-200-02	s	10E-2
D221	8-719-200-02	s	10E-2
D222	8-719-911-19	s	1SS119
D223	8-719-911-19	s	1SS119
D224	8-719-911-19	s	1SS119
D225	8-719-911-19	s	1SS119
D226	8-719-911-19	s	1SS119
D227	8-719-136-07	s	RD3.6E-B
IC1	8-759-729-03	s	NJM2903D(JRC)
IC2	8-759-745-56	s	NJM4556D(JRC)
IC3	8-759-729-03	s	NJM2903D(JRC)
IC4	8-752-006-10	s	CX20061(SONY)
IC5	8-752-006-10	s	CX20061(SONY)

Ref.No.	Parts No.	SP	Description
IC6	8-759-345-38	s	HD14538BP(HITACHI)
IC7	8-752-006-10	s	CX20061(SONY)
IC8	8-752-006-10	s	CX20061(SONY)
IC9	8-759-729-03	s	NJM2903D(JRC)
IC10	8-752-006-10	s	CX20061(SONY)
IC11	8-752-006-10	s	CX20061(SONY)
IC12	8-759-700-62	s	NJM4562D(JRC)
IC13	8-752-006-10	s	CX20061(SONY)
IC14	8-752-006-10	s	CX20061(SONY)
IC15	8-759-345-38	s	HD14538BP(HITACHI)
IC16	8-759-145-57	s	uPC4557C(NEC)
IC17	8-759-240-81	s	TC4081BP(TOSHIBA)
IC18	8-759-145-57	s	uPC4557C(NEC)
IC19	8-759-700-62	s	NJM4562D(JRC)
IC200	8-759-240-71	s	TC4071BP(TOSHIBA)
IC201	8-759-900-37	s	SN74LS37N(TI)
IC202	8-759-645-23	s	M54523P(MITSUBISHI)
IC203	8-759-600-24	s	M54543L(MITSUBISHI)
IC204	8-759-240-01	s	TC4001BP(TOSHIBA)
IC205	8-759-600-61	s	M54529AP(MITSUBISHI)
IC206	8-759-600-24	s	M54543L(MITSUBISHI)
IC207	8-759-240-49	s	TC4049BP(TOSHIBA)
IC208	8-759-600-61	s	M54529AP(MITSUBISHI)
IC209	8-759-940-94	s	MSM4094RS(OKI)
IC210	8-759-240-50	s	TC4050BP(TOSHIBA)
IC211	8-759-600-34	s	M54532P(MITSUBISHI)
IC212	8-759-645-23	s	M54523P(MITSUBISHI)
IC213	8-759-240-49	s	TC4049BP(TOSHIBA)
IC214	8-759-940-94	s	MSM4094RS(OKI)
IC215	8-759-145-84	s	uPD4584BC(NEC)
IC216	8-759-240-21	s	TC4021BP(TOSHIBA)
IC217	8-759-145-84	s	uPD4584BC(NEC)
IC218	8-743-420-00	s	BX342(SONY)
IC219	8-743-430-00	s	BX343(SONY)
IC220	8-743-420-00	s	BX342(SONY)
L1	1-459-155-00	s	45
L2	1-459-155-00	s	45
L201	1-407-496-00	s	MICRO 2.2mH
L202	1-407-510-00	s	MICRO 33mH
L203	1-407-510-00	s	MICRO 33mH
Q1	8-729-201-05	s	2SC2878-B
Q2	8-729-663-47	s	2SC1364
Q3	8-729-663-47	s	2SC1364
Q4	8-729-201-05	s	2SC2878-B
Q5	8-729-201-05	s	2SC2878-B
Q6	8-729-201-05	s	2SC2878-B
Q7	8-729-663-47	s	2SC1364
Q8	8-729-663-47	s	2SC1364
Q9	8-729-663-47	s	2SC1364
Q10	8-729-663-47	s	2SC1364
Q11	8-729-663-47	s	2SC1364
Q12	8-729-663-47	s	2SC1364
Q13	8-729-800-42	s	2SK152
Q14	8-729-612-77	s	2SA1027R
Q15	8-729-663-47	s	2SC1364
Q16	8-729-663-47	s	2SC1364
Q17	8-729-663-47	s	2SC1364
Q18	8-729-663-47	s	2SC1364
Q19	8-729-663-47	s	2SC1364
Q213	8-729-374-02	s	2SB740
Q214	8-729-201-05	s	2SC2878-B
Q215	8-729-663-47	s	2SC1364
Q216	8-729-663-47	s	2SC1364
Q217	8-729-117-54	s	2SA1175

Ref.No.	Parts No.	SP	Description
R68	1-212-717-00	s	METAL 430K 1% 1/2W
RV1	1-228-292-00	s	VAR,CERMET 2K
RV2	1-228-292-00	s	VAR,CERMET 2K
RV3	1-228-292-00	s	VAR,CERMET 2K
RV4	1-228-291-00	s	VAR,CERMET 1K
RV201	1-228-298-00	s	VAR,CERMET 200K
RV202	1-228-298-00	s	VAR,CERMET 200K
RV203	1-228-288-00	s	VAR,CERMET 100
	DU-53 BOARD		
	A-6715-211-A	o	MOUNTED CIRCUIT BOARD,DU-53
IC1	8-759-145-58	s	uPC4558C(NEC)
IC2	8-759-145-58	s	uPC4558C(NEC)
	HE-5 BOARD		
	1-608-056-00	o	PRINTED CIRCUIT BOARD,HE-5
	HP-11 BOARD		
	1-611-545-00	o	PRINTED CIRCUIT BOARD,HP-11
J1	1-507-553-00	s	JACK "HEADPHONES"
RV1	1-226-140-00	s	VAR,20K/20K "HEADPHONES"
	KEY CHASSIS		
	A-6734-202-A	o	KEY CHASSIS ASS'Y WITH KY-45, KY-47, DP-31, PT-9, PC-9 AND PC-14 BOARDS
	1-557-236-11	o	FLAT CABLE,6P "KY-45 TO KY-47"
	1-557-237-11	o	FLAT CABLE,23P "KY-45 TO DP-31"
	DP-31 BOARD		
	1-611-551-00	o	PRINTED CIRCUIT BOARD,DP-31
D1	8-719-803-21	s	LED,7-SEG TLR-321
D2	8-719-803-21	s	LED,7-SEG TLR-321
D3	8-719-803-21	s	LED,7-SEG TLR-321
D4	8-719-803-21	s	LED,7-SEG TLR-321
S25	1-552-539-00	s	KEY "LAP"
S26	1-552-539-00	s	KEY "RESET"
S27	1-552-539-00	s	KEY "PLAYER"
S28	1-552-539-00	s	KEY "RECORDER"

Ref.No.	Parts No.	SP	Description
	KY-45 BOARD		
C28	1-102-106-00	s	CERAMIC 100PF 10% 50V
C29	1-102-114-00	s	CERAMIC 470PF 10% 50V
C30	1-102-114-00	s	CERAMIC 470PF 10% 50V
C31	1-102-114-00	s	CERAMIC 470PF 10% 50V
C32	1-102-114-00	s	CERAMIC 470PF 10% 50V
C50	1-102-114-00	s	CERAMIC 470PF 10% 50V
C51	1-102-114-00	s	CERAMIC 470PF 10% 50V
C52	1-102-114-00	s	CERAMIC 470PF 10% 50V
C53	1-102-106-00	s	CERAMIC 100PF 10% 50V
C54	1-102-106-00	s	CERAMIC 100PF 10% 50V
C55	1-102-106-00	s	CERAMIC 100PF 10% 50V
C56	1-102-106-00	s	CERAMIC 100PF 10% 50V
CN1	1-560-454-00	s	40P
CN4	1-560-538-00	s	6P
D1	8-719-911-19	s	1SS119
D2	8-719-911-19	s	1SS119
D3	8-719-911-19	s	1SS119
D4	8-719-911-19	s	1SS119
D5	8-719-911-19	s	1SS119
D6	8-719-911-19	s	1SS119
D7	8-719-911-19	s	1SS119
D8	8-719-911-19	s	1SS119
D9	8-719-911-19	s	1SS119
D10	8-719-911-19	s	1SS119
D11	8-719-911-19	s	1SS119
D12	8-719-911-19	s	1SS119
D13	8-719-911-19	s	1SS119
D14	8-719-911-19	s	1SS119
D15	8-719-911-19	s	1SS119
D16	8-719-911-19	s	1SS119
D17	8-719-911-19	s	1SS119
D18	8-719-911-19	s	1SS119
D19	8-719-911-19	s	1SS119
D20	8-719-911-19	s	1SS119
D21	8-719-911-19	s	1SS119
D22	8-719-911-19	s	1SS119
D23	8-719-911-19	s	1SS119
D24	8-719-911-19	s	1SS119
D25	8-719-911-19	s	1SS119
D26	8-719-911-19	s	1SS119
D27	8-719-911-19	s	1SS119
D28	8-719-911-19	s	1SS119
D29	8-719-911-19	s	1SS119
D30	8-719-911-19	s	1SS119
D31	8-719-911-19	s	1SS119
D32	8-719-911-19	s	1SS119
D33	8-719-911-19	s	1SS119
D34	8-719-911-19	s	1SS119
D35	8-719-911-19	s	1SS119
D36	8-719-911-19	s	1SS119
D37	8-719-911-19	s	1SS119
D38	8-719-911-19	s	1SS119
D39	8-719-911-19	s	1SS119
D40	8-719-911-19	s	1SS119
D41	8-719-911-19	s	1SS119
D42	8-719-911-19	s	1SS119
D43	8-719-904-55	s	LED,GL-5HD5 "PLAYER"
D44	8-719-904-55	s	LED,GL-5HD5 "RECORDER"
D45	8-719-911-19	s	1SS119

Ref.No.	Parts No.	SP	Description
D46	8-719-911-19	s	1SS119
D47	8-719-911-19	s	1SS119
D48	8-719-911-19	s	1SS119
D49	8-719-904-55	s	LED,GL-5HD5 "STILL"
D50	8-719-911-19	s	1SS119
D51	8-719-911-19	s	1SS119
D52	8-719-911-19	s	1SS119
D53	8-719-911-19	s	1SS119
D54	8-719-911-19	s	1SS119
D55	8-719-911-19	s	1SS119
D56	8-719-911-19	s	1SS119
D57	8-719-911-19	s	1SS119
D58	8-719-911-19	s	1SS119
D59	8-719-911-19	s	1SS119
D60	8-719-911-19	s	1SS119
D61	8-719-911-19	s	1SS119
D62	8-719-911-19	s	1SS119
D63	8-719-911-19	s	1SS119
D64	8-719-911-19	s	1SS119
D65	8-719-904-55	s	LED,GL-5HD5 "SHUTTLE"
D66	8-719-904-55	s	LED,GL-5HD5 "JOG"
IC1	8-759-600-61	s	M54529AP(MITSUBISHI)
IC2	8-759-200-50	s	TC40H374P(TOSHIBA)
IC3	8-759-600-61	s	M54529AP(MITSUBISHI)
IC4	8-759-600-61	s	M54529AP(MITSUBISHI)
IC5	8-759-245-16	s	TC4516BP(TOSHIBA)
IC6	8-759-645-17	s	M54517P(MITSUBISHI)
IC7	8-759-240-50	s	TC4050BP(TOSHIBA)
IC8	8-759-040-70	s	MC14070BCP(MOTOROLA)
IC9	8-759-240-11	s	TC4011BP(TOSHIBA)
IC10	8-759-600-61	s	M54529AP(MITSUBISHI)
IC11	8-759-240-13	s	TC4013BP(TOSHIBA)
IC12	8-759-145-19	s	uPD4519BC(NEC)
IC13	8-759-200-39	s	TC40H240P(TOSHIBA)
IC14	8-759-200-22	s	TC40H138P(TOSHIBA)
IC15	8-759-901-38	s	SN74LS138N(TI)
IC16	8-759-901-38	s	SN74LS138N(TI)
IC17	8-759-600-61	s	M54529AP(MITSUBISHI)
IC18	8-759-045-84	s	MC14584BCP(MOTOROLA)
IC19	8-759-045-84	s	MC14584BCP(MOTOROLA)
IC20	8-759-645-17	s	M54517P(MITSUBISHI)
IC21	8-759-200-43	s	TC40H244P(TOSHIBA)
IC22	8-759-600-61	s	M54529AP(MITSUBISHI)
IC23	8-759-200-50	s	TC40H374P(TOSHIBA)
IC24	8-759-600-61	s	M54529AP(MITSUBISHI)
L1	1-407-490-00	s	MICRO 680
L2	1-407-490-00	s	MICRO 680
PL1	1-518-386-00	s	5V,30mA "SERVO"
PL2	1-518-386-00	s	5V,30mA "REV"
PL3	1-518-386-00	s	5V,30mA "FWD"
Q1	8-729-602-68	s	2SA1026-8
Q2	8-729-602-68	s	2SA1026-8
Q3	8-729-602-68	s	2SA1026-8
Q4	8-729-602-68	s	2SA1026-8
Q5	8-729-602-68	s	2SA1026-8
Q6	8-729-602-68	s	2SA1026-8
Q7	8-729-602-68	s	2SA1026-8
Q8	8-729-602-68	s	2SA1026-8
Q9	8-729-602-68	s	2SA1026-8
Q10	8-729-602-68	s	2SA1026-8

Ref.No.	Parts No.	SP	Description
Q11	8-729-602-68	s	2SA1026-8
Q12	8-729-663-47	s	2SC1364
Q13	8-729-602-68	s	2SA1026-8
Q14	8-729-602-68	s	2SA1026-8
Q15	8-729-602-68	s	2SA1026-8
Q16	8-729-602-68	s	2SA1026-8
Q17	8-729-602-68	s	2SA1026-8
Q18	8-729-103-43	s	2SB734
Q19	8-729-103-43	s	2SB734
Q20	8-729-103-43	s	2SB734
Q21	8-729-103-43	s	2SB734
Q22	8-729-103-43	s	2SB734
Q23	8-729-103-43	s	2SB734
Q24	8-729-103-43	s	2SB734
Q25	8-729-103-43	s	2SB734
Q26	8-729-602-68	s	2SA1026-8
Q27	8-729-602-68	s	2SA1026-8
Q28	8-729-602-68	s	2SA1026-8
Q29	8-729-602-68	s	2SA1026-8
Q30	8-729-602-68	s	2SA1026-8
Q31	8-729-602-68	s	2SA1026-8
Q32	8-729-602-68	s	2SA1026-8
Q33	8-729-602-68	s	2SA1026-8
Q34	8-729-602-68	s	2SA1026-8
Q35	8-729-602-68	s	2SA1026-8
Q36	8-729-602-68	s	2SA1026-8
Q37	8-729-602-68	s	2SA1026-8
Q38	8-729-602-68	s	2SA1026-8
Q39	8-729-602-68	s	2SA1026-8
Q40	8-729-602-68	s	2SA1026-8
Q41	8-729-602-68	s	2SA1026-8
Q42	8-729-602-68	s	2SA1026-8
Q43	8-729-602-68	s	2SA1026-8
Q44	8-729-602-68	s	2SA1026-8
Q45	8-729-602-68	s	2SA1026-8
Q46	8-729-602-68	s	2SA1026-8
Q47	8-729-602-68	s	2SA1026-8
S1	1-554-708-11	s	KEY,9 SQUARE "ASSEMBLE"
S2	1-554-708-11	s	KEY,9 SQUARE "VIDEO INS"
S3	1-554-708-11	s	KEY,9 SQUARE "AUDIO CH1"
S4	1-554-708-11	s	KEY,9 SQUARE "AUDIO CH2"
S5	1-554-708-11	s	KEY,9 SQUARE "TC REC"
S6	1-554-318-11	s	KEY,12 SQUARE "PREVIEW"
	1-518-450-31	s	PILOT LAMP,5V 60mA
	3-706-480-01	s	KEY TOP (WHITE)
S7	1-554-318-21	s	KEY,12 SQUARE "AUTO EDIT"
	1-518-450-31	s	PILOT LAMP,5V 60mA
	3-706-480-12	s	KEY TOP (RED)
S8	1-554-318-11	s	KEY,12 SQUARE "REVIEW"
	1-518-450-31	s	PILOT LAMP,5V 60mA
	3-706-480-01	s	KEY TOP (WHITE)
S9	1-554-318-11	s	KEY,12 SQUARE "IN POINT"
	1-518-450-31	s	PILOT LAMP,5V 60mA
	3-706-480-01	s	KEY TOP (WHITE)
S10	1-554-318-11	s	KEY,12 SQUARE "OUT POINT"
	1-518-450-31	s	PILOT LAMP,5V 60mA
	3-706-480-01	s	KEY TOP (WHITE)
S11	1-554-318-11	s	KEY,12 SQUARE "STANDBY"
	1-518-450-31	s	PILOT LAMP,5V 60mA
	3-706-480-01	s	KEY TOP (WHITE)
S12	1-554-318-11	s	KEY,12 SQUARE "PREROLL"
	1-518-450-31	s	PILOT LAMP,5V 60mA
	3-706-480-01	s	KEY TOP (WHITE)

Ref.No.	Parts No.	SP	Description
S13	1-553-551-21	s	KEY,17 SQUARE "REC"
	1-518-450-21	s	PILOT LAMP,5V 60mA
	3-706-481-11	s	KEY TOP (RED)
S14	1-554-318-11	s	KEY,12 SQUARE "EDIT"
	1-518-450-31	s	PILOT LAMP,5V 60mA
	3-706-480-01	s	KEY TOP (WHITE)
S15	1-554-318-31	s	KEY,12 SQUARE "EJECT"
	1-518-450-31	s	PILOT LAMP,5V 60mA
	3-706-480-22	s	KEY TOP (BLUE)
S16	1-553-551-11	s	KEY,17 SQUARE "REW"
	1-518-450-21	s	PILOT LAMP,5V 60mA
	3-706-481-01	s	KEY TOP (WHITE)
S17	1-553-551-11	s	KEY,17 SQUARE "PLAY"
	1-518-450-21	s	PILOT LAMP,5V 60mA
	3-706-481-01	s	KEY TOP (WHITE)
S18	1-553-551-11	s	KEY,17 SQUARE "FF"
	1-518-450-21	s	PILOT LAMP,5V 60mA
	3-706-481-01	s	KEY TOP (WHITE)
S19	1-553-551-32	s	KEY,17 SQUARE "STOP"
	1-518-450-21	s	PILOT LAMP,5V 60mA
	3-706-481-22	s	KEY TOP (BLUE)
S20	1-554-318-11	s	KEY 12 SQUARE "SEARCH"
	1-518-450-31	s	PILOT LAMP 5V 60mA
	3-706-480-01	s	KEY TOP (WHITE)
S21	1-516-994-00	s	SLIDE "PB/EE"
	KY-47 BOARD		
	1-611-550-00	o	PRINTED CIRCUIT BOARD,KY-47
S22	1-552-539-00	s	KEY "TRIM-"
S23	1-552-539-00	s	KEY "TRIM+"
S24	1-552-539-00	s	KEY "ENTRY"
	PC-9 BOARD		
	1-604-351-00	o	PRINTED CIRCUIT BOARD,PC-9
IC1	8-759-133-90	s	uPC339C(NEC)
IC2	8-719-104-42	s	PS4005-L(NEC)
IC3	8-719-104-42	s	PS4005-L(NEC)
IC4	8-719-104-42	s	PS4005-L(NEC)
	PC-14 BOARD		
	1-604-353-00	o	PRINTED CIRCUIT BOARD,PC-14
IC1	8-719-104-42	s	PS4005-L(NEC).
	PT-9 BOARD		
	1-605-018-00	o	PRINTED CIRCUIT BOARD,PT-9
IC25	8-759-171-05	s	uPC7805H(NEC)

Ref.No.	Parts No.	SP	Description
	LE-19 BOARD		
	1-608-053-00	o	PRINTED CIRCUIT BOARD,LE-19
D1	8-719-103-01	s	LED,SE301A
	LM-4 BOARD		
	1-585-913-00	o	PRINTED CIRCUIT BOARD,LM-4
L1	1-407-696-00	s	MICRO,18 10%
L2	1-407-696-00	s	MICRO,18 10%
	MB-49 BOARD		
	A-6729-082-A	o	MOUNTED CIRCUIT BOARD,MB-49
C101	1-123-299-00	s	ELECT 1000 20% 6.3V
C103	1-123-299-00	s	ELECT 1000 20% 6.3V
CN101	1-560-919-11	o	RECEPTACLE,60P,FEMALE
CN102	1-560-919-11	o	RECEPTACLE,60P,FEMALE
CN103	1-560-919-11	o	RECEPTACLE,60P,FEMALE
CN104	1-560-919-11	o	RECEPTACLE,60P,FEMALE
CN105	1-560-919-11	o	RECEPTACLE,60P,FEMALE
CN106	1-560-919-11	o	RECEPTACLE,60P,FEMALE
CN113	1-560-919-11	o	RECEPTACLE,60P,FEMALE
CN114	1-560-919-11	o	RECEPTACLE,60P,FEMALE
CN115	1-564-409-11	o	RECEPTACLE,50P
CN116	1-560-191-00	o	RECEPTACLE,40P
CN117	1-560-210-00	o	RECEPTACLE,30P
	1-561-174-00	o	HOUSING,30P
	1-560-768-00	o	CONTACT
	1-560-767-00	o	CONTACT
	1-508-944-00	s	INDEX PIN
CN118	1-564-410-11	s	RECEPTACLE,40P
CN121	1-560-719-00	o	RECEPTACLE,34P
	1-562-420-00	o	HOUSING,34P
	1-560-767-00	o	CONTACT
CN122	1-560-436-00	o	RECEPTACLE,3P
	1-561-218-00	o	HOUSING,3P
	1-561-254-00	o	CONTACT
CN123	1-560-564-00	o	RECEPTACLE,6P
	1-561-219-00	o	HOUSING,6P
	1-561-254-00	o	CONTACT
CN124	1-560-033-00	o	RECEPTACLE,3P
	1-561-218-00	o	HOUSING,3P
	1-561-254-00	o	CONTACT
CN140	1-560-471-00	o	RECEPTACLE,10P
	1-561-589-00	o	HOUSING,10P
	1-561-557-00	o	CONTACT
CN141	1-560-471-00	o	RECEPTACLE,10P
	1-561-589-00	o	HOUSING,10P
	1-561-557-00	o	CONTACT
CN142	1-560-464-00	o	RECEPTACLE,10P
	1-561-589-00	o	HOUSING,10P
	1-561-557-00	o	CONTACT
CN143	1-560-471-00	o	RECEPTACLE,10P
	1-561-589-00	o	HOUSING,10P
	1-561-557-00	o	CONTACT

Ref.No.	Parts No.	SP	Description
CN144	1-560-471-00	o	RECEPTACLE,10P
	1-561-589-00	o	HOUSING,10P
	1-561-557-00	o	CONTACT
CN145	1-560-471-00	o	RECEPTACLE,10P
	1-561-589-00	o	HOUSING,10P
	1-561-557-00	o	CONTACT
CN148	1-560-471-00	o	RECEPTACLE,10P
	1-561-589-00	o	HOUSING,10P
	1-561-557-00	o	CONTACT

MB-50 BOARD

	A-6728-921-C	o	MOUNTED CIRCUIT BOARD,MB-50
CN201	1-561-654-00	o	RECEPTACLE,86P,FEMALE
CN202	1-561-654-00	o	RECEPTACLE,86P,FEMALE
CN203	1-561-654-00	o	RECEPTACLE,86P,FEMALE
CN204	1-561-654-00	o	RECEPTACLE,86P,FEMALE
CN205	1-561-654-00	o	RECEPTACLE,86P,FEMALE
CN206	1-560-192-00	o	RECEPTACLE,50P
CN207	1-560-033-00	o	3P
	1-561-218-00	o	RECEPTACLE,3P
	1-561-254-00	o	CONTACT
CN209	1-560-436-00	o	RECEPTACLE,3P
	1-561-218-00	o	HOUSING,3P
	1-561-245-00	o	CONTACT
CN210	1-560-210-00	o	RECEPTACLE,30P
	1-561-174-00	o	HOUSING,30P
	1-560-768-00	o	CONTACT
	1-560-767-00	o	CONTACT
	1-508-944-00	o	INDEX PIN

MB-52 BOARD

	A-6728-922-A	o	MOUNTED CIRCUIT BOARD,MB-52
CN301	1-561-654-00	o	RECEPTACLE,86P,FEMALE
CN302	1-561-654-00	o	RECEPTACLE,86P,FEMALE
CN303	1-564-409-11	o	RECEPTACLE,50P
CN306	1-560-466-00	o	3P
CN310	1-564-411-11	o	50P

MB-73 BOARD

	A-6729-083-A	o	MOUNTED CIRCUIT BOARD,MB-73
C106	1-123-299-00	s	ELECT 1000 20% 6.3V
CN107	1-560-919-11	o	RECEPTACLE,60P,FEMALE
CN108	1-560-919-11	o	RECEPTACLE,60P,FEMALE
CN109	1-560-919-11	o	RECEPTACLE,60P,FEMALE
CN110	1-560-919-11	o	RECEPTACLE,60P,FEMALE
CN111	1-560-919-11	o	RECEPTACLE,60P,FEMALE

Ref.No.	Parts No.	SP	Description
CN112	1-560-919-11	o	RECEPTACLE,60P,FEMALE
CN119	1-564-415-11	o	RECEPTACLE,8P
CN120	1-560-564-00	o	RECEPTACLE,6P
	1-561-219-00	o	HOUSING,6P
	1-561-254-00	o	CONTACT
CN130	1-560-436-00	o	RECEPTACLE,3P
	1-561-218-00	o	HOUSING,3P
	1-561-254-00	o	CONTACT
CN135	1-564-414-11	o	RECEPTACLE,6P
CN137	1-560-471-00	o	RECEPTACLE,10P
	1-561-589-00	o	HOUSING,10P
	1-561-557-00	o	CONTACT

MS-12 BOARD

	1-609-094-11	o	PRINTED CIRCUIT BOARD,MS-12
PH1	8-719-104-42	s	PS4005-L

MY-17 BOARD

	A-6711-416-A	o	MOUNTED CIRCUIT BOARD,MY-17
C28	1-107-207-00	s	MICA 16PF 5% 500V
C29	1-107-207-00	s	MICA 16PF 5% 500V
C62	1-102-110-00	s	CERAMIC 220PF 10% 50V
C63	1-102-110-00	s	CERAMIC 220PF 10% 50V
ICA1	8-759-901-64	s	SN74LS164N(TI)
ICB1	8-759-901-64	s	SN74LS164N(TI)
ICC1	8-759-901-64	s	SN74LS164N(TI)
ICD1	8-759-901-66	s	SN74LS166AN(TI)
ICE1	8-759-903-74	s	SN74LS374N(TI)
ICF1	8-759-901-64	s	SN74LS164N(TI)
ICG1	8-759-901-66	s	SN74LS166AN(TI)
ICH1	8-759-901-61	s	SN74LS161AN(TI)
ICJ1	8-759-901-61	s	SN74LS161AN(TI)
ICM1	8-759-974-08	s	SN7408N(TI)
ICA2	8-759-903-74	s	SN74LS374N(TI)
ICB2	8-759-903-74	s	SN74LS374N(TI)
ICC2	8-759-901-64	s	SN74LS164N(TI)
ICD2	8-759-901-28	s	MSM5128-12RS(OKI)
ICE2	8-759-901-64	s	SN74LS164N(TI)
ICF2	8-759-901-66	s	SN74LS166AN(TI)
ICG2	8-759-901-28	s	MSM5128-12RS(OKI)
ICH2	8-759-901-57	s	SN74LS157N(TI)
ICJ2	8-759-901-61	s	SN74LS161AN(TI)
ICK2	8-759-901-61	s	SN74LS161AN(TI)
ICL2	8-759-902-21	s	SN74LS221N(TI)
ICM2	8-759-901-64	s	SN74LS164N(TI)
ICN2	8-759-901-64	s	SN74LS164N(TI)
ICA3	8-759-901-66	s	SN74LS166AN(TI)
ICB3	8-759-901-66	s	SN74LS166AN(TI)
ICC3	8-759-901-64	s	SN74LS164N(TI)
ICE3	8-759-901-64	s	SN74LS164N(TI)
ICF3	8-759-903-74	s	SN74LS374N(TI)
ICH3	8-759-901-57	s	SN74LS157N(TI)
ICJ3	8-759-901-75	s	SN74LS175N(TI)

Ref.No.	Parts No.	SP	Description
ICK3	8-759-901-75	s	SN74LS175N(TI)
ICL3	8-759-901-61	s	SN74LS161AN(TI)
ICM3	8-759-900-74	s	SN74LS74AN(TI)
ICN3	8-759-900-74	s	SN74LS74AN(TI)
ICA4	8-759-901-66	s	SN74LS166AN(TI)
ICB4	8-759-901-66	s	SN74LS166AN(TI)
ICC4	8-759-903-74	s	SN74LS374N(TI)
ICD4	8-759-901-28	s	MSM5128-12RS(OKI)
ICE4	8-759-903-74	s	SN74LS374N(TI)
ICF4	8-759-901-66	s	SN74LS166AN(TI)
ICG4	8-759-901-28	s	MSM5128-12RS(OKI)
ICH4	8-759-901-57	s	SN74LS157N(TI)
ICJ4	8-759-901-75	s	SN74LS175N(TI)
ICK4	8-759-901-63	s	SN74LS163AN(TI)
ICL4	8-759-901-51	s	SN74LS151N(TI)
ICM4	8-759-900-30	s	SN74LS30N(TI)
ICN4	8-759-900-74	s	SN74LS74AN(TI)
ICA5	8-759-901-66	s	SN74LS166AN(TI)
ICB5	8-759-901-66	s	SN74LS166AN(TI)
ICC5	8-759-903-74	s	SN74LS374N(TI)
ICD5	8-759-901-28	s	MSM5128-12RS(OKI)
ICE5	8-759-901-64	s	SN74LS164N(TI)
ICF5	8-759-903-74	s	SN74LS374N(TI)
ICG5	8-759-901-28	s	MSM5128-12RS(OKI)
ICH5	8-759-901-57	s	SN74LS157N(TI)
ICJ5	8-759-901-63	s	SN74LS163AN(TI)
ICK5	8-759-900-85	s	SN74LS85N(TI)
ICL5	8-759-903-93	s	SN74LS393N(TI)
ICM5	8-759-900-04	s	SN74LS04N(TI)
ICN5	8-759-900-04	s	SN74LS04N(TI)
ICA6	8-759-901-66	s	SN74LS166AN(TI)
ICB6	8-759-901-66	s	SN74LS166AN(TI)
ICC6	8-759-901-64	s	SN74LS164N(TI)
ICE6	8-759-901-64	s	SN74LS164N(TI)
ICF6	8-759-901-64	s	SN74LS164N(TI)
ICH6	8-759-901-61	s	SN74LS161AN(TI)
ICJ6	8-759-901-61	s	SN74LS161AN(TI)
ICK6	8-759-901-91	s	SN74LS191N(TI)
ICL6	8-759-900-00	s	SN74LS00N(TI)
ICM6	8-759-900-74	s	SN74LS74AN(TI)
ICP6	8-759-900-00	s	SN74LS00N(TI)
ICA7	8-759-901-66	s	SN74LS166AN(TI)
ICB7	8-759-901-66	s	SN74LS166AN(TI)
ICC7	8-759-901-64	s	SN74LS164N(TI)
ICD7	8-759-901-28	s	MSM5128-12RS(OKI)
ICE7	8-759-901-66	s	SN74LS166AN(TI)
ICF7	8-759-901-66	s	SN74LS166AN(TI)
ICG7	8-759-901-28	s	MSM5128-12RS(OKI)
ICH7	8-759-901-57	s	SN74LS157N(TI)
ICJ7	8-759-901-57	s	SN74LS157N(TI)
ICK7	8-759-901-61	s	SN74LS161AN(TI)
ICL7	8-759-900-08	s	SN74LS08N(TI)
ICM7	8-759-902-21	s	SN74LS221N(TI)
ICN7	8-759-901-23	s	SN74LS123N(TI)
ICP7	8-759-901-64	s	SN74LS164N(TI)
ICA8	8-759-901-66	s	SN74LS166AN(TI)
ICB8	8-759-901-66	s	SN74LS166AN(TI)
ICC8	8-759-903-74	s	SN74LS374N(TI)
ICE8	8-759-903-74	s	SN74LS374N(TI)
ICF8	8-759-901-64	s	SN74LS164N(TI)
ICH8	8-759-901-57	s	SN74LS157N(TI)
ICJ8	8-759-901-57	s	SN74LS157N(TI)
ICK8	8-759-901-61	s	SN74LS161AN(TI)
ICL8	8-759-901-91	s	SN74LS191N(TI)
ICM8	8-759-900-00	s	SN74LS00N(TI)

Ref.No.	Parts No.	SP	Description
ICN8	8-759-974-04	s	SN7404N(TI)
ICP8	8-759-974-04	s	SN7404N(TI)
ICA9	8-759-901-66	s	SN74LS166AN(TI)
ICB9	8-759-901-66	s	SN74LS166AN(TI)
ICC9	8-759-901-64	s	SN74LS164N(TI)
ICD9	8-759-901-28	s	MSM5128-12RS(OKI)
ICE9	8-759-901-66	s	SN74LS166AN(TI)
ICF9	8-759-901-64	s	SN74LS164N(TI)
ICG9	8-759-901-28	s	MSM5128-12RS(OKI)
ICH9	8-759-901-63	s	SN74LS163AN(TI)
ICJ9	8-759-904-96	s	MBM2149L-55(FUJITSU)
ICK9	8-759-901-23	s	SN74LS123N(TI)
ICL9	8-759-901-61	s	SN74LS161AN(TI)
ICM9	8-759-900-04	s	SN74LS04N(TI)
ICN9	8-759-901-61	s	SN74LS161AN(TI)
ICP9	8-759-900-00	s	SN74LS00N(TI)
ICA10	8-759-901-66	s	SN74LS166AN(TI)
ICB10	8-759-901-66	s	SN74LS166AN(TI)
ICC10	8-759-903-74	s	SN74LS374N(TI)
ICD10	8-759-901-28	s	MSM5128-12RS(OKI)
ICE10	8-759-901-66	s	SN74LS166AN(TI)
ICF10	8-759-903-74	s	SN74LS374N(TI)
ICG10	8-759-901-28	s	MSM5128-12RS(OKI)
ICH10	8-759-901-63	s	SN74LS163AN(TI)
ICJ10	8-759-904-96	s	MBM2149L-55(FUJITSU)
ICL10	8-759-900-74	s	SN74LS74AN(TI)
ICM10	8-759-914-00	s	SN7400N(TI)
ICN10	8-759-901-61	s	SN74LS161AN(TI)
ICP10	8-759-901-61	s	SN74LS161AN(TI)
ICA11	8-759-901-66	s	SN74LS166AN(TI)
ICB11	8-759-901-66	s	SN74LS166AN(TI)
ICC11	8-759-903-74	s	SN74LS374N(TI)
ICE11	8-759-903-74	s	SN74LS374N(TI)
ICF11	8-759-903-74	s	SN74LS374N(TI)
ICH11	8-759-901-63	s	SN74LS163AN(TI)
ICJ11	8-759-903-74	s	SN74LS374N(TI)
ICK11	8-759-900-02	s	SN74LS02N(TI)
ICL11	8-759-903-74	s	SN74LS374N(TI)
ICM11	8-759-903-74	s	SN74LS374N(TI)
ICN11	8-759-900-04	s	SN74LS04N(TI)
ICA12	8-759-903-74	s	SN74LS374N(TI)
ICB12	8-759-903-74	s	SN74LS374N(TI)
ICC12	8-759-901-64	s	SN74LS164N(TI)
ICD12	8-759-901-28	s	MSM5128-12RS(OKI)
ICE12	8-759-942-73	s	SN74273N(TI)
ICF12	8-759-900-04	s	SN74LS04N(TI)
ICG12	8-759-901-64	s	SN74LS164N(TI)
ICH12	8-759-974-04	s	SN7404N(TI)
ICJ12	8-759-900-74	s	SN74LS74AN(TI)
ICK12	8-759-900-04	s	SN74LS04N(TI)
ICN12	8-759-900-04	s	SN74LS04N(TI)
L1	1-421-329-00	s	5.6
RB1	1-231-450-00	s	3.3KX8
RB2	1-231-450-00	s	3.3KX8

PC-17 BOARD

	1-608-070-00	o	PRINTED CIRCUIT BOARD,PC-17

Ref.No.	Parts No.	SP	Description
PH1	8-719-104-42	s	PS4005-L(NEC)

PC-18 BOARD

	1-608-071-00	o	PRINTED CIRCUIT BOARD,PC-18
PH1	8-719-104-42	s	PS4005-L(NEC)

PD-22 BOARD

	1-611-993-11	o	PRINTED CIRCUIT BOARD,PD-22

PH-16 BOARD

	1-608-054-00	o	PRINTED CIRCUIT BOARD,PH-16
Q1	8-729-206-01	s	PHOTO,TPS601

PR-48 BOARD

	A-6711-525-A	o	MOUNTED CIRCUIT BOARD,PR-48
C7	1-109-530-00	s	MICA 62PF 5% 100V
C22	1-107-206-00	s	MICA 15PF 5% 500V
C40	1-107-048-00	s	MICA 6.8PF 500V
C62	1-109-530-00	s	MICA 62PF 5% 100V
C74	1-107-087-00	s	MICA 120PF 5% 50V
C85	1-109-535-00	s	MICA 100PF 5% 100V
C94	1-107-048-00	s	MICA 6.8PF 500V
C100	1-109-527-00	s	MICA 47PF 5% 100V
C101	1-109-542-00	s	MICA 220PF 5% 100V
C106	1-109-527-00	s	MICA 47PF 5% 100V
C107	1-109-542-00	s	MICA 220PF 5% 100V
C115	1-109-525-00	s	MICA 39PF 5% 100V
C118	1-107-159-00	s	MICA 33PF 5% 500V
C119	1-109-527-00	s	MICA 47PF 5% 100V
C128	1-109-548-00	s	MICA 360PF 5% 100V
C142	1-109-547-00	s	MICA 330PF 5% 100V
C145	1-109-547-00	s	MICA 330PF 5% 100V
C147	1-109-535-00	s	MICA 100PF 5% 100V
C148	1-109-547-00	s	MICA 330PF 5% 100V
C160	1-109-548-00	s	MICA 360PF 5% 100V
C165	1-109-537-00	s	MICA 120PF 5% 100V
C167	1-109-535-00	s	MICA 100PF 5% 100V
C168	1-109-548-00	s	MICA 360PF 5% 100V
C170	1-109-533-00	s	MICA 82PF 5% 100V
C176	1-109-530-00	s	MICA 62PF 5% 100V
C178	1-107-202-00	s	MICA 10PF 5% 500V
C181	1-109-530-00	s	MICA 62PF 5% 100V
C186	1-109-530-00	s	MICA 62PF 5% 100V
C208	1-107-211-00	s	MICA 24PF 5% 500V
C209	1-107-211-00	s	MICA 24PF 5% 500V
C210	1-107-211-00	s	MICA 24PF 5% 500V
C211	1-107-211-00	s	MICA 24PF 5% 500V
C212	1-107-211-00	s	MICA 24PF 5% 500V
C213	1-107-211-00	s	MICA 24PF 5% 500V
C214	1-107-211-00	s	MICA 24PF 5% 500V
C215	1-107-211-00	s	MICA 24PF 5% 500V
C217	1-107-211-00	s	MICA 24PF 5% 500V
C219	1-107-211-00	s	MICA 24PF 5% 500V
C220	1-107-211-00	s	MICA 24PF 5% 500V
C221	1-107-211-00	s	MICA 24PF 5% 500V
C222	1-107-211-00	s	MICA 24PF 5% 500V
C223	1-107-211-00	s	MICA 24PF 5% 500V
C224	1-107-211-00	s	MICA 24PF 5% 500V
C225	1-107-211-00	s	MICA 24PF 5% 500V
C226	1-107-211-00	s	MICA 24PF 5% 500V
C231	1-107-211-00	s	MICA 24PF 5% 500V
C232	1-107-211-00	s	MICA 24PF 5% 500V
C233	1-107-211-00	s	MICA 24PF 5% 500V
C234	1-107-211-00	s	MICA 24PF 5% 500V
C235	1-107-211-00	s	MICA 24PF 5% 500V
C236	1-107-211-00	s	MICA 24PF 5% 500V
C237	1-107-211-00	s	MICA 24PF 5% 500V
C238	1-107-211-00	s	MICA 24PF 5% 500V
C239	1-107-211-00	s	MICA 24PF 5% 500V
C248	1-107-048-00	s	MICA 6.8PF 500V
C249	1-107-211-00	s	MICA 24PF 5% 500V
C252	1-107-048-00	s	MICA 6.8PF 500V
C501	1-109-556-00	s	MICA 620PF 5% 100V
C504	1-107-202-00	s	MICA 10PF 5% 500V
D1	8-719-815-55	s	1S1555
D2			
D3	8-719-908-10	s	QSCH-1754(4PCS)
D4			
D5			
D6	8-719-815-80	s	1S1587
D7	8-719-815-80	s	1S1587
D8	8-719-102-51	s	1SZ51
D9	8-719-815-55	s	1S1555
D10			
D11	8-719-908-10	s	QSCH-1754(4PCS)
D13			
D14			
D15	8-719-815-80	s	1S1587
D16	8-719-815-80	s	1S1587
D17	8-719-815-55	s	1S1555
D18	8-719-815-55	s	1S1555
D19	8-719-815-55	s	1S1555
D20	8-719-815-55	s	1S1555
D21	8-719-815-55	s	1S1555
D22	8-719-815-55	s	1S1555
D23	8-719-815-55	s	1S1555
D24	8-719-815-55	s	1S1555
D25	8-719-815-55	s	1S1555
D26	8-719-815-55	s	1S1555
D27	8-719-100-58	s	RD10EB3
D28	8-719-815-55	s	1S1555
DL1	1-415-168-00	s	20ns x10
DL2	1-415-173-00	s	5ns x10
DL3	1-415-173-00	s	5ns x10
DL4	1-415-308-00	s	700ns
FB1	1-535-178-00	s	
FB2	1-535-178-00	s	
FB3	1-535-178-00	s	
FB4	1-535-178-00	s	

Ref.No.	Parts No.	SP	Description
IC1	8-749-936-51	s	BX365A(SONY)
IC2	8-759-900-59	s	HI1-201-5(HARRIS)
IC3	8-759-990-82	s	TL082CP(TI)
IC4	8-752-005-21	s	CX20052A(SONY)
IC5	8-759-301-05	s	HD10105(HITACHI)
IC7	8-759-300-25	s	HD10125(HITACHI)
IC8	8-759-300-25	s	HD10125(HITACHI)
IC9	8-759-145-57	s	uPC4557C(NEC)
IC10	8-749-936-51	s	BX365A(SONY)
IC11	8-759-990-82	s	TL082CP(TI)
IC12	8-759-900-59	s	HI1-201-5(HARRIS)
IC13	8-759-990-82	s	TL082CP(TI)
IC14	8-752-005-21	s	CX20052A(SONY)
IC15	8-759-301-05	s	HD10105(HITACHI)
IC17	8-759-300-25	s	HD10125(HITACHI)
IC18	8-759-300-25	s	HD10125(HITACHI)
IC19	8-749-936-51	s	BX365A(SONY)
IC20	8-759-103-19	s	uPC319C(NEC)
IC21	8-749-936-51	s	BX365A(SONY)
IC22	8-759-103-19	s	uPC319C(NEC)
IC23	8-759-900-58	s	HA1-4905-5(HARRIS)
IC24	8-759-990-84	s	TL084CN(TI)
IC25	8-759-900-59	s	HI1-201-5(HARRIS)
IC26	8-759-901-23	s	SN74LS123N(TI)
IC27	8-759-900-59	s	HI1-201-5(HARRIS)
IC28	8-759-902-21	s	SN74LS221N(TI)
IC29	8-759-954-54	s	SN75454BP(TI)
IC30	8-759-900-58	s	HA1-4905-5(HARRIS)
IC31	8-759-990-84	s	TL084CN(TI)
IC32	8-759-900-58	s	HA1-4905-5(HARRIS)
IC33	8-759-900-59	s	HI1-201-5(HARRIS)
IC34	8-759-900-00	s	SN74LS00N(TI)
IC35	8-759-900-74	s	SN74LS74AN(TI)
IC36	8-759-902-21	s	SN74LS221N(TI)
IC37	8-759-900-20	s	SN74LS20N(TI)
IC38	8-759-245-28	s	TC4528BP(TOSHIBA)
IC39	8-759-902-21	s	SN74LS221N(TI)
IC40	8-759-240-22	s	TC4022BP(TOSHIBA)
IC41	8-749-936-51	s	BX365A(SONY)
IC42	8-749-936-51	s	BX365A(SONY)
IC43	8-749-936-51	s	BX365A(SONY)
IC44	8-752-005-11	s	CX20051A(SONY)
IC45	8-752-005-11	s	CX20051A(SONY)
IC46	8-752-005-11	s	CX20051A(SONY)
IC47	8-759-145-57	s	uPC4557C(NEC)
IC48	8-759-990-82	s	TL082CP(TI)
IC49	8-759-906-07	s	TL607CP(TI)
IC50	8-759-906-07	s	TL607CP(TI)
IC51	8-759-990-82	s	TL082CP(TI)
IC52	8-759-145-57	s	uPC4557C(NEC)
IC53	8-759-001-98	s	MC10198L(MOTOROLA)
IC54	8-759-910-32	s	SN74S32N(TI)
IC55	8-759-901-63	s	SN74LS163AN(TI)
IC56	8-759-942-73	s	SN74273N(TI)
IC57	8-759-904-96	s	MBM2149L-55(FUJITSU)
IC58	8-759-904-96	s	MBM2149L-55(FUJITSU)
IC59	8-759-904-96	s	MBM2149L-55(FUJITSU)
IC60	8-759-904-96	s	MBM2149L-55(FUJITSU)
IC61	8-759-942-73	s	SN74273N(TI)
IC62	8-759-900-04	s	SN74LS04N(TI)
IC63	8-759-900-13	s	SN74LS113AN(TI)
IC64	8-759-903-74	s	SN74LS374N(TI)
IC65	8-759-901-63	s	SN74LS163AN(TI)
IC66	8-759-902-73	s	SN74LS273N(TI)
IC67	8-759-902-73	s	SN74LS273N(TI)

Ref.No.	Parts No.	SP	Description
IC68	8-759-902-73	s	SN74LS273N(TI)
IC69	8-759-903-74	s	SN74LS374N(TI)
IC501	8-749-936-51	s	BX365A(SONY)
L1	1-421-329-00	s	5.6
L2	1-421-329-00	s	5.6
L7	1-421-329-00	s	5.6
L8	1-421-329-00	s	5.6
LPF1	1-235-177-00	s	LPF
LPF2	1-235-177-00	s	LPF
LPF3	1-235-178-00	s	LPF
LPF4	1-235-179-00	s	LPF
LPF5	1-235-179-00	s	LPF
Q1	8-729-672-43	s	2SC2724
Q2	8-729-368-90	s	2SC689H
Q3	8-729-672-43	s	2SC2724
Q4	8-769-193-09	s	2SK43-3
Q5	8-769-193-09	s	2SK43-3
Q6	8-729-353-00	s	2SA530H
Q7	8-729-368-90	s	2SC689H
Q8	8-729-368-90	s	2SC689H
Q9	8-729-100-87	s	2SC1275
Q10	8-729-100-87	s	2SC1275
Q11	8-729-672-43	s	2SC2724
Q12	8-729-113-32	s	2SB733
Q13	8-729-368-90	s	2SC689H
Q14	8-729-672-43	s	2SC2724
Q15	8-769-193-09	s	2SK43-3
Q16	8-769-193-09	s	2SK43-3
Q17	8-729-353-00	s	2SA530H
Q18	8-729-368-90	s	2SC689H
Q19	8-729-368-90	s	2SC689H
Q20	8-729-100-87	s	2SC1275
Q21	8-729-100-87	s	2SC1275
Q22	8-729-672-43	s	2SC2724
Q23	8-729-672-43	s	2SC2724
Q24	8-729-612-77	s	2SA1027R
Q25	8-729-672-43	s	2SC2724
Q26	8-729-672-43	s	2SC2724
Q27	8-729-612-77	s	2SA1027R
Q28	8-729-110-53	s	2SA1005
Q29	8-729-110-53	s	2SA1005
Q30	8-729-110-53	s	2SA1005
Q501	8-724-375-01	s	2SC403C
RB1	1-231-502-00	s	510x4
RB2	1-231-405-00	s	1Kx8
RB3	1-231-502-00	s	510x4
RB4	1-231-405-00	s	1Kx8
RB5	1-235-128-00	s	1.5Kx8
RB6	1-231-450-00	s	3.3Kx8
RB7	1-235-128-00	s	1.5Kx8
RB8	1-231-450-00	s	3.3Kx8
RB9	1-235-128-00	s	1.5Kx8
RB10	1-231-450-00	s	3.3Kx8
RB11	1-231-450-00	s	3.3Kx8
RB12	1-231-450-00	s	3.3Kx8

Ref.No.	Parts No.	SP	Description
RV1	1-228-291-00	s	VAR,CERMET 1K
RV2	1-228-295-00	s	VAR,CERMET 20K
RV3	1-228-291-00	s	VAR,CERMET 1K
RV4	1-228-291-00	s	VAR,CERMET 1K
RV5	1-228-295-00	s	VAR,CERMET 20K
RV6	1-228-295-00	s	VAR,CERMET 20K
RV7	1-228-295-00	s	VAR,CERMET 20K
RV8	1-228-292-00	s	VAR,CERMET 2K
RV9	1-228-294-00	s	VAR,CERMET 10K
RV10	1-228-457-00	s	VAR,CERMET 2K
T1	1-446-330-00	s	PULSE
T2	1-446-330-00	s	PULSE

RD-2 BOARD

	A-6715-212-A	o	MOUNTED CIRCUIT BOARD,RD-2
D1	8-719-200-02	s	10E-2
D2	8-719-200-02	s	10E-2
Q1	8-729-177-43	s	2SD774
Q2	8-729-313-42	s	2SD1134
Q3	8-729-313-42	s	2SD1134
Q4	8-729-374-02	s	2SB740
Q5	8-729-313-42	s	2SD1134
Q6	8-729-177-43	s	2SD774
Q7	8-729-313-42	s	2SD1134
Q8	8-729-313-42	s	2SD1134
Q9	8-729-374-02	s	2SB740
Q10	8-729-313-42	s	2SD1134
R4	1-217-059-00	s	WIREWOUND 2.7 10% 6W
R5	1-207-620-00	s	WIREWOUND 1 10% 3W
R6	1-207-679-00	s	WIREWOUND 15 10% 6W
R10	1-207-620-00	s	WIREWOUND 1 10% 3W

RE-10 BOARD

	A-6711-495-A	o	MOUNTED CIRCUIT BOARD,RE-10
C5	1-102-116-00	s	CERAMIC 680PF 10% 50V
C15	1-102-116-00	s	CERAMIC 680PF 10% 50V
CN1	1-560-462-00	o	RECEPTACLE,6P
	1-561-587-00	o	HOUSING,6P
	1-561-557-00	o	CONTACT
CN2	1-560-461-00	o	RECEPTACLE,5P
	1-561-586-00	o	HOUSING,5P
	1-561-557-00	o	CONTACT
LV1	1-407-565-00	s	VAR,2.2
LV2	1-407-565-00	s	VAR,2.2
Q1	8-729-663-47	s	2SC1364
Q2	8-729-177-32	s	2SD773
Q3	8-729-177-32	s	2SD773
Q4	8-729-663-47	s	2SC1364
Q5	8-729-663-47	s	2SC1364

Ref.No.	Parts No.	SP	Description
Q6	8-729-177-32	s	2SD773
Q7	8-729-177-32	s	2SD773
Q8	8-729-663-47	s	2SC1364
RV1	1-228-303-00	s	VAR,CERMET 200
RV2	1-228-303-00	s	VAR,CERMET 200
T1	1-433-194-00	s	15.5MHz
T2	1-433-194-00	s	15.5MHz

RM-24 BOARD

	1-611-541-12	o	PRINTED CIRCUIT BOARD,RM-24
CN1	1-561-028-00	s	RECEPTACLE,36P "REMOTE-2"
CN2	1-561-655-00	s	RECEPTACLE,9P "REMOTE-1"
CN3	1-557-233-11	o	FLAT CABLE ASS'Y,40P
D1	8-719-200-02	s	10E-2
D2	8-719-200-02	s	10E-2

RP-15 BOARD

	A-6711-515-B	o	MOUNTED CIRCUIT BOARD,RP-15
C107	1-123-821-00	s	ELECT 47 20% 16V
C111	1-123-821-00	s	ELECT 47 20% 16V
C116	1-123-821-00	s	ELECT 47 20% 16V
C119	1-123-821-00	s	ELECT 47 20% 16V
C207	1-123-821-00	s	ELECT 47 20% 16V
C211	1-123-821-00	s	ELECT 47 20% 16V
C216	1-123-821-00	s	ELECT 47 20% 16V
C219	1-123-821-00	s	ELECT 47 20% 16V
CN703	1-560-467-00	o	RECEPTACLE,4P
	1-561-585-00	o	HOUSING,4P
	1-561-557-00	o	CONTACT
CN704	1-560-469-00	o	RECEPTACLE,6P
	1-561-587-00	o	HOUSING,6P
	1-561-557-00	o	CONTACT
CN705	1-560-468-00	o	RECEPTACLE,5P
	1-561-586-00	o	HOUSING,5P
	1-561-557-00	o	CONTACT
CN706	1-560-467-00	o	RECEPTACLE,4P
	1-561-585-00	o	HOUSING,4P
	1-561-557-00	o	CONTACT
D101	8-719-815-59	s	1S1555-S
D102	8-719-127-07	s	RD2.7E
D103	8-719-815-55	s	1S1555
D104	8-719-815-55	s	1S1555
D105	8-719-104-10	s	1SS99
D106	8-719-104-10	s	1SS99
D201	8-719-815-59	s	1S1555-S
D202	8-719-127-07	s	RD2.7E
D203	8-719-815-55	s	1S1555
D204	8-719-815-55	s	1S1555
D205	8-719-104-10	s	1SS99
D206	8-719-104-10	s	1SS99

Ref.No.	Parts No.	SP	Description
IC101	8-743-731-00	s	BX373A(SONY)
IC102	8-759-240-09	s	TC4009UBP(TOSHIBA)
IC103	8-741-126-50	s	BX1265(SONY)
IC104	8-741-126-50	s	BX1265(SONY)
IC107	8-729-677-14	s	TRANSISTOR 2SC2771
IC108	8-729-677-14	s	TRANSISTOR 2SC2771
IC109	8-752-006-10	s	CX20061(SONY)
IC110	8-752-006-10	s	CX20061(SONY)
IC201	8-743-731-00	s	BX373A(SONY)
IC202	8-759-240-09	s	TC4009UBP(TOSHIBA)
IC203	8-741-126-50	s	BX1265(SONY)
IC204	8-741-126-50	s	BX1265(SONY)
IC207	8-729-677-14	s	TRANSISTOR 2SC2771
IC208	8-729-677-14	s	TRANSISTOR 2SC2771
IC209	8-752-006-10	s	CX20061(SONY)
IC210	8-752-006-10	s	CX20061(SONY)
Q103	8-729-201-05	s	2SC2878-B
Q106	8-729-201-05	s	2SC2878-B
Q203	8-729-201-05	s	2SC2878-B
Q206	8-729-201-05	s	2SC2878-B
RV102	1-226-770-00	s	VAR,METAL 470
RV103	1-226-772-00	s	VAR,METAL 4.7K
RV104	1-226-702-00	s	VAR,METAL 2.2K
RV105	1-226-772-00	s	VAR,METAL 4.7K
RV106	1-226-702-00	s	VAR,METAL 2.2K
RV107	1-226-769-00	s	VAR,METAL 100
RV110	1-226-769-00	s	VAR,METAL 100
RV202	1-226-770-00	s	VAR,METAL 470
RV203	1-226-772-00	s	VAR,METAL 4.7K
RV204	1-226-702-00	s	VAR,METAL 2.2K
RV205	1-226-772-00	s	VAR,METAL 4.7K
RV206	1-226-702-00	s	VAR,METAL 2.2K
RV207	1-226-769-00	s	VAR,METAL 100
RV210	1-226-769-00	s	VAR,METAL 100
T101	1-426-017-00	s	AF
T102	1-426-066-00	s	RF
T103	1-426-018-00	s	AF
T104	1-426-066-00	s	RF
T105	1-426-018-00	s	AF
T201	1-426-017-00	s	AF
T202	1-426-066-00	s	RF
T203	1-426-018-00	s	AF
T204	1-426-066-00	s	RF
T205	1-426-018-00	s	AF

Ref No.	Parts No.	SP	Description
SD-9 BOARD			
	A-6711-572-A	o	MOUNTED CIRCUIT BOARD,SD-9
C1	1-123-645-00	s	ELECT 33 20% 10V
C2	1-123-645-00	s	ELECT 33 20% 10V
C3	1-123-647-00	s	ELECT 47 20% 6.3V
C7	1-123-617-00	s	ELECT 10 20% 16V
C9	1-161-468-00	s	CERAMIC 560PF 5% 50V
C16	1-123-617-00	s	ELECT 10 20% 16V
C20	1-161-463-00	s	CERAMIC 220PF 5% 50V
C22	1-161-465-00	s	CERAMIC 330PF 5% 50V
C23	1-107-157-00	s	MICA 27PF 5% 500V
C24	1-161-462-00	s	CERAMIC 180PF 5% 50V
C25	1-123-821-00	s	ELECT 47 20% 16V
C26	1-107-209-00	s	MICA 20PF 5% 500V
C28	1-123-821-00	s	ELECT 47 20% 16V
C29	1-123-821-00	s	ELECT 47 20% 16V
C30	1-161-463-00	s	CERAMIC 220PF 5% 50V
C32	1-123-617-00	s	ELECT 10 20% 16V
C34	1-123-617-00	s	ELECT 10 20% 16V
C35	1-123-617-00	s	ELECT 10 20% 16V
C39	1-123-617-00	s	ELECT 10 20% 16V
C60	1-107-206-00	s	CERAMIC 15PF 5% 500V
C101	1-123-821-00	s	ELECT 47 20% 16V
C102	1-123-821-00	s	ELECT 47 20% 16V
C103	1-123-617-00	s	ELECT 10 20% 16V
C105	1-123-821-00	s	ELECT 47 20% 16V
C107	1-123-821-00	s	ELECT 47 20% 16V
C109	1-123-617-00	s	ELECT 10 20% 16V
C111	1-123-617-00	s	ELECT 10 20% 16V
C115	1-123-617-00	s	ELECT 10 20% 16V
C117	1-123-617-00	s	ELECT 10 20% 16V
C119	1-123-617-00	s	ELECT 10 20% 16V
C122	1-123-821-00	s	ELECT 47 20% 16V
C124	1-123-821-00	s	ELECT 47 20% 16V
C128	1-123-821-00	s	ELECT 47 20% 16V
C130	1-123-821-00	s	ELECT 47 20% 16V
C144	1-123-617-00	s	ELECT 10 20% 16V
C146	1-123-821-00	s	ELECT 47 20% 16V
C147	1-123-821-00	s	ELECT 47 20% 16V
C148	1-123-821-00	s	ELECT 47 20% 16V
C149	1-123-821-00	s	ELECT 47 20% 16V
C150	1-123-617-00	s	ELECT 10 20% 16V
C152	1-123-617-00	s	ELECT 10 20% 16V
C154	1-123-821-00	s	ELECT 47 20% 16V
C155	1-123-821-00	s	ELECT 47 20% 16V
C158	1-123-821-00	s	ELECT 47 20% 16V
C159	1-123-821-00	s	ELECT 47 20% 16V
C162	1-123-821-00	s	ELECT 47 20% 16V
CF1	1-527-497-00	s	4.55MHz
D1	8-719-911-19	s	1SS119
D2	8-719-815-87	s	1S1587
D6	8-719-911-19	s	1SS119
D7	8-719-911-19	s	1SS119
D8	8-719-911-19	s	1SS119
D9	8-719-911-19	s	1SS119
FL1	1-235-231-00	s	BELL
FL2	1-235-230-00	s	BPF

Ref No.	Parts No.	SP	Description
IC1	8-752-006-10	s	CX20061(SONY)
IC2	8-759-201-47	s	TA7357AP(TOSHIBA)
IC4	8-759-952-07	s	SN75207BN(TI)
IC5	8-759-220-74	s	TC40H074P(TOSHIBA)
IC6	8-759-902-21	s	SN74LS221N(TI)
IC7	8-759-903-00	s	CX7903(SONY)
IC8	8-757-731-00	s	CX773A(SONY)
IC9	8-759-902-21	s	SN74LS221N(TI)
IC10	8-749-936-61	s	BX366A(SONY)
IC11	8-749-936-61	s	BX366A(SONY)
IC12	8-759-131-11	s	uPC311C(NEC)
IC13	8-759-608-53	s	CX853(SONY)
IC19	8-741-118-30	s	BX1183(SONY)
IC20	8-759-907-87	s	CX787(SONY)
IC21	8-759-608-54	s	CX854(SONY)
IC22	8-759-608-55	s	CX855(SONY)
IC23	8-759-240-53	s	TC4053BP(TOSHIBA)
IC24	8-759-220-04	s	TC40H004P(TOSHIBA)
IC25	8-759-240-71	s	TC4071BP(TOSHIBA)
IC26	8-759-240-01	s	TC4001BP(TOSHIBA)
IC27	8-759-240-11	s	TC4011BP(TOSHIBA)
IC28	8-759-708-09	s	NJM78L09A(JRC)
Q1	8-729-603-50	s	2SC403SP
Q2	8-729-663-47	s	2SC1364
Q3	8-729-603-50	s	2SC403SP
Q4	8-729-364-12	s	2SC641K
Q5	8-729-603-50	s	2SC403SP
Q6	8-729-603-50	s	2SC403SP
Q7	8-729-603-50	s	2SC403SP
Q8	8-729-603-50	s	2SC403SP
Q9	8-729-603-50	s	2SC403SP
Q10	8-729-603-50	s	2SC403SP
Q11	8-729-603-50	s	2SC403SP
Q12	8-729-603-50	s	2SC403SP
Q13	8-729-603-50	s	2SC403SP
Q19	8-729-201-04	s	2SC2878
Q20	8-729-201-04	s	2SC2878
R29	1-215-442-00	s	METAL 7.5K 1% 1/6W
R30	1-215-438-00	s	METAL 5.1K 1% 1/6W
R41	1-215-421-00	s	METAL 1K 1% 1/6W
R42	1-215-421-00	s	METAL 1K 1% 1/6W
R47	1-215-466-00	s	METAL 75K 1% 1/6W
R48	1-215-449-00	s	METAL 15K 1% 1/6W
R49	1-215-349-00	s	METAL 75 1% 1/6W
R51	1-215-444-00	s	METAL 9.1K 1% 1/6W
R52	1-215-421-00	s	METAL 1K 1% 1/6W
R55	1-215-428-00	s	METAL 2K 1% 1/6W
R56	1-215-428-00	s	METAL 2K 1% 1/6W
R58	1-215-349-00	s	METAL 75 1% 1/6W
R59	1-215-349-00	s	METAL 75 1% 1/6W
R60	1-215-349-00	s	METAL 75 1% 1/6W
R73	1-215-441-00	s	METAL 6.8K 1% 1/6W
R74	1-215-430-00	s	METAL 2.4K 1% 1/6W
R75	1-215-421-00	s	METAL 1K 1% 1/6W
R76	1-215-422-00	s	METAL 1.1K 1% 1/6W
R77	1-215-449-00	s	METAL 15K 1% 1/6W
R78	1-215-421-00	s	METAL 1K 1% 1/6W
R104	1-215-431-00	s	METAL 2.7K 1% 1/6W
R105	1-215-431-00	s	METAL 2.7K 1% 1/6W

Ref No.	Parts No.	SP	Description
RV1	1-224-937-00	s	VAR,CERMET 1K
RV2	1-224-937-00	s	VAR,CERMET 1K
RV3	1-224-940-00	s	VAR,CERMET 10K
RV4	1-224-941-00	s	VAR,CERMET 20K
RV5	1-224-940-00	s	VAR,CERMET 10K
RV6	1-224-937-00	s	VAR,CERMET 1K
RV7	1-224-941-00	s	VAR,CERMET 20K
X1	1-527-729-00	s	OSC,14.1875MHz

Ref.No.	Parts No.	SP	Description
SS-8 BOARD			
	1-586-946-00	o	PRINTED CIRCUIT BOARD,SS-8
L1	1-459-051-00	s	HEAD,SENSING
SV-55 BOARD			
	A-6715-225-A	o	MOUNTED CIRCUIT BOARD,SV-55
C3	1-107-177-00	s	MICA 220PF 5% 500V
C10	1-102-114-00	s	CERAMIC 470PF 10% 50V
C18	1-131-404-00	s	ELECT 0.22 10% 25V
C38	1-130-224-00	s	FILM 0.015 5% 50V
C40	1-131-341-00	s	ELECT 0.1 10% 25V
C41	1-123-299-00	s	ELECT 1000 20% 6.3V
C51	1-102-114-00	s	CERAMIC 470PF 10% 50V
C63	1-107-177-00	s	MICA 220PF 5% 500V
C68	1-131-341-00	s	ELECT 0.1 10% 25V
C81	1-131-341-00	s	ELECT 0.1 10% 25V
C84	1-102-116-00	s	CERAMIC 680PF 10% 50V
C86	1-130-016-00	s	FILM 680PF 5% 50V
C96	1-107-163-00	s	MICA 47PF 5% 500V
C112	1-131-341-00	s	ELECT 0.1 10% 25V
C113	1-102-112-00	s	CERAMIC 330PF 10% 50V
C115	1-102-106-00	s	CERAMIC 100PF 10% 50V
C116	1-131-408-00	s	ELECT 1 10% 25V
C119	1-102-114-00	s	CERAMIC 470PF 10% 50V
C120	1-102-114-00	s	CERAMIC 470PF 10% 50V
C121	1-102-114-00	s	CERAMIC 470PF 10% 50V
C130	1-102-114-00	s	CERAMIC 470PF 10% 50V
C134	1-102-114-00	s	CERAMIC 470PF 10% 50V
C139	1-102-114-00	s	CERAMIC 470PF 10% 50V
C143	1-102-110-00	s	CERAMIC 220PF 10% 50V
C175	1-102-114-00	s	CERAMIC 470PF 10% 50V
C198	1-123-299-00	s	ELECT 1000 20% 6.3V
C207	1-102-114-00	s	CERAMIC 470PF 10% 50V
C208	1-102-114-00	s	CERAMIC 470PF 10% 50V
C209	1-102-110-00	s	CERAMIC 220PF 10% 50V
C210	1-102-114-00	s	CERAMIC 470PF 10% 50V
C211	1-102-114-00	s	CERAMIC 470PF 10% 50V
C212	1-102-110-00	s	CERAMIC 220PF 10% 50V
C220	1-102-114-00	s	CERAMIC 470PF 10% 50V
C221	1-102-114-00	s	CERAMIC 470PF 10% 50V
C222	1-107-210-00	s	MICA 22PF 5% 500V
C223	1-107-210-00	s	MICA 22PF 5% 500V
C232	1-102-106-00	s	CERAMIC 100PF 10% 50V
C502	1-131-341-00	s	ELECT 0.1 10% 25V
C504	1-102-112-00	s	CERAMIC 330PF 10% 50V
C507	1-123-613-00	s	ELECT 3.3 20% 35V
C508	1-123-610-00	s	ELECT 0.47 20% 50V
C513	1-107-210-00	s	MICA 22PF 5% 500V
C517	1-107-210-00	s	MICA 22PF 5% 500V
C519	1-107-210-00	s	MICA 22PF 5% 500V
C521	1-107-210-00	s	MICA 22PF 5% 500V
C530	1-123-311-00	s	ELECT 1000 20% 10V
C537	1-123-299-00	s	ELECT 1000 20% 6.3V
C540	1-123-299-00	s	ELECT 1000 20% 6.3V
C552	1-131-404-00	s	ELECT 0.22 10% 25V
C563	1-123-613-00	s	ELECT 3.3 20% 35V
C902	1-107-169-00	s	MICA 100PF 5% 500V
C903	1-107-169-00	s	MICA 100PF 5% 500V

Ref.No.	Parts No.	SP	Description
CN3	1-562-409-11	o	PLUG,25P
CN4	1-562-408-11	o	PLUG,24P
D1	8-719-911-19	s	1SS119
D2	8-719-911-19	s	1SS119
D3	8-719-911-19	s	1SS119
D4	8-719-911-19	s	1SS119
D5	8-719-911-19	s	1SS119
D6	8-719-911-19	s	1SS119
D7	8-719-911-19	s	1SS119
D8	8-719-911-19	s	1SS119
D9	8-719-911-19	s	1SS119
D10	8-719-911-19	s	1SS119
D11	8-719-911-19	s	1SS119
D12	8-719-982-04	s	ERB81-004
D13	8-719-982-04	s	ERB81-004
D14	8-719-911-19	s	1SS119
D15	8-719-911-19	s	1SS119
D20	8-719-911-19	s	1SS119
D21	8-719-911-19	s	1SS119
D22	8-719-911-19	s	1SS119
D23	8-719-911-19	s	1SS119
D24	8-719-911-19	s	1SS119
D25	8-719-911-19	s	1SS119
D26	8-719-911-19	s	1SS119
D27	8-719-911-19	s	1SS119
D28	8-719-911-19	s	1SS119
D29	8-719-911-19	s	1SS119
D30	8-719-911-19	s	1SS119
D31	8-719-911-19	s	1SS119
D32	8-719-911-19	s	1SS119
D33	8-719-911-19	s	1SS119
D34	8-719-911-19	s	1SS119
D35	8-719-911-19	s	1SS119
D36	8-719-911-19	s	1SS119
D37	8-719-911-19	s	1SS119
D39	8-719-911-19	s	1SS119
D40	8-719-911-19	s	1SS119
D41	8-719-911-19	s	1SS119
D42	8-719-911-19	s	1SS119
D43	8-719-911-19	s	1SS119
D52	8-719-911-19	s	1SS119
D53	8-719-911-19	s	1SS119
D54	8-719-911-19	s	1SS119
D55	8-719-911-19	s	1SS119
D56	8-719-911-19	s	1SS119
D57	8-719-911-19	s	1SS119
D58	8-719-911-19	s	1SS119
D59	8-719-911-19	s	1SS119
D60	8-719-911-19	s	1SS119
D61	8-719-911-19	s	1SS119
D70	8-719-911-19	s	1SS119
D72	8-719-911-19	s	1SS119
D501	8-719-911-19	s	1SS119
D504	8-719-911-19	s	1SS119
D505	8-719-911-19	s	1SS119
D506	8-719-911-19	s	1SS119
D507	8-719-911-19	s	1SS119
D508	8-719-911-19	s	1SS119
D509	8-719-911-19	s	1SS119
D510	8-719-911-19	s	1SS119
D513	8-719-911-19	s	1SS119
D514	8-719-911-19	s	1SS119

Ref.No.	Parts No.	SP	Description
D515	8-719-911-19	s	1SS119
D517	8-719-911-19	s	1SS119
D518	8-719-911-19	s	1SS119
IC10	8-759-900-37	s	SN74LS37N(TI)
IC11	8-759-708-05	s	NJM78L05A(JRC)
IC21	8-759-145-84	s	uPD4584BC(NEC)
IC22	8-759-240-71	s	TC4071BP(TOSHIBA)
IC23	8-759-240-69	s	TC4069UBP(TOSHIBA)
IC24	8-759-240-73	s	TC4073BP(TOSHIBA)
IC25	8-759-240-21	s	TC4021BP(TOSHIBA)
IC26	8-759-240-51	s	TC4051BP(TOSHIBA)
IC27	8-759-135-80	s	uPC358C(NEC)
IC28	8-759-240-51	s	TC4051BP(TOSHIBA)
IC29	8-759-345-38	s	HD14538BP(HITACHI)
IC30	8-759-135-80	s	uPC358C(NEC)
IC31	8-759-729-03	s	NJM2903D(JRC)
IC32	8-759-240-01	s	TC4001BP(TOSHIBA)
IC33	8-759-345-38	s	HD14538BP(HITACHI)
IC34	8-759-133-90	s	uPC339C(NEC)
IC35	8-759-135-80	s	uPC358C(NEC)
IC36	8-759-135-80	s	uPC358C(NEC)
IC37	8-759-700-58	s	NJM4558D-FA(JRC)
IC38	8-759-345-38	s	HD14538BP(HITACHI)
IC39	8-759-240-69	s	TC4069UBP(TOSHIBA)
IC40	8-759-250-67	s	TC5067BP(TOSHIBA)
IC41	8-759-145-58	s	uPC4558C(NEC)
IC42	8-759-240-53	s	TC4053BP(TOSHIBA)
IC43	8-759-132-40	s	uPC324C(NEC)
IC46	8-759-240-81	s	TC4081BP(TOSHIBA)
IC47	8-759-240-53	s	TC4053BP(TOSHIBA)
IC48	8-759-240-71	s	TC4071BP(TOSHIBA)
IC49	8-759-240-53	s	TC4053BP(TOSHIBA)
IC50	8-759-240-01	s	TC4001BP(TOSHIBA)
IC51	8-759-345-38	s	HD14538BP(HITACHI)
IC52	8-759-240-13	s	TC4013BP(TOSHIBA)
IC53	8-759-240-30	s	TC4030BP(TOSHIBA)
IC54	8-759-133-90	s	uPC339C(NEC)
IC55	8-759-145-58	s	uPC4558C(NEC)
IC56	8-759-145-58	s	uPC4558C(NEC)
IC57	8-759-240-69	s	TC4069UBP(TOSHIBA)
IC58	8-759-240-69	s	TC4069UBP(TOSHIBA)
IC59	8-759-240-11	s	TC4011BP(TOSHIBA)
IC60	8-759-145-58	s	uPC4558C(NEC)
IC61	8-759-729-03	s	NJM2903D(JRC)
IC62	8-759-135-80	s	uPC358C(NEC)
IC63	8-749-909-15	s	BX3915A(SONY)
IC64	8-759-705-58	s	NJM4558D-D(JRC)
IC65	8-749-939-14	s	BX3914(SONY)
IC66	8-759-240-53	s	TC4053BP(TOSHIBA)
IC68	8-759-240-01	s	TC4001BP(TOSHIBA)
IC69	8-759-240-30	s	TC4030BP(TOSHIBA)
IC70	8-759-240-71	s	TC4071BP(TOSHIBA)
IC71	8-759-145-58	s	uPC4558C(NEC)
IC72	8-759-135-80	s	uPC358C(NEC)
IC73	8-759-135-80	s	uPC358C(NEC)
IC75	8-759-240-50	s	TC4050BP(TOSHIBA)
IC76	8-759-145-58	s	uPC4558C(NEC)
IC77	8-759-240-81	s	TC4081BP(TOSHIBA)
IC80	8-759-729-03	s	NJM2903D(JRC)
IC81	8-759-132-40	s	uPC324C(NEC)
IC82	8-749-911-54	s	BX1154(SONY)
IC83	8-759-345-38	s	HD14538BP(HITACHI)
IC84	8-759-345-38	s	HD14538BP(HITACHI)

Ref.No.	Parts No.	SP	Description
IC85	8-759-240-25	s	TC4025BP(TOSHIBA)
IC86	8-759-240-69	s	TC4069UBP(TOSHIBA)
IC87	8-759-729-03	s	NJM2903D(JRC)
IC88	8-759-240-66	s	TC4066BP(TOSHIBA)
IC89	8-759-240-11	s	TC4011BP(TOSHIBA)
IC91	8-759-729-03	s	NJM2903D(JRC)
IC92	8-759-245-39	s	TC4539BP(TOSHIBA)
IC93	8-759-045-84	s	MC14584BCP(MOTOROLA)
IC95	8-759-345-38	s	HD14538BP(HITACHI)
IC96	8-759-729-03	s	NJM2903D(JRC)
IC97	8-751-941-03	s	CX194B-3(SONY)
IC98	8-759-345-38	s	HD14538BP(HITACHI)
IC99	8-759-240-53	s	TC4053BP(TOSHIBA)
IC102	8-759-240-71	s	TC4071BP(TOSHIBA)
IC103	8-759-240-53	s	TC4053BP(TOSHIBA)
IC104	8-759-240-66	s	TC4066BP(TOSHIBA)
IC110	8-759-940-94	s	MSM4094RS(OKI)
IC111	8-759-240-69	s	TC4069UBP(TOSHIBA)
IC112	8-759-345-38	s	HD14538BP(HITACHI)
IC113	8-759-040-46	s	HD14046BP(HITACHI)
IC114	8-759-345-38	s	HD14538BP(HITACHI)
IC116	8-759-240-13	s	TC4013BP(TOSHIBA)
IC117	8-759-132-40	s	uPC324C(NEC)
IC118	8-759-245-16	s	TC4516BP(TOSHIBA)
IC119	8-759-245-16	s	TC4516BP(TOSHIBA)
IC120	8-759-240-81	s	TC4081BP(TOSHIBA)
IC121	8-759-240-30	s	TC4030BP(TOSHIBA)
IC123	8-759-240-53	s	TC4053BP(TOSHIBA)
IC124	8-759-240-53	s	TC4053BP(TOSHIBA)
IC125	8-759-240-73	s	TC4073BP(TOSHIBA)
IC126	8-759-729-03	s	NJM2903D(JRC)
IC127	8-759-911-17	s	MB88501-207L(FUJITSU)
IC128	8-759-240-13	s	TC4013BP(TOSHIBA)
IC900	8-759-241-75	s	TC40175BP(TOSHIBA)
IC901	8-759-240-73	s	TC4073BP(TOSHIBA)
L1	1-459-155-00	s	45
L2	1-408-298-00	s	2mH
L3	1-459-155-00	s	45
Q2	8-729-606-32	s	2SC2603
Q3	8-729-606-32	s	2SC2603
Q5	8-729-188-23	s	2SD882
Q8	8-729-606-32	s	2SC2603
Q9	8-729-288-02	s	2SD880
Q11	8-729-315-63	s	2SB856
Q12	8-729-606-32	s	2SC2603
Q13	8-729-606-32	s	2SC2603
Q14	8-729-606-32	s	2SC2603
Q15	8-729-606-32	s	2SC2603
Q16	8-729-201-05	s	2SC2878-B
Q17	8-769-193-09	s	2SK43-3
Q18	8-729-606-32	s	2SC2603
Q19	8-729-606-32	s	2SC2603
Q20	8-729-103-43	s	2SB734
Q21	8-729-606-32	s	2SC2603
Q22	8-729-606-32	s	2SC2603
Q23	8-729-606-32	s	2SC2603
Q24	8-729-201-05	s	2SC2878-B

Ref.No.	Parts No.	SP	Description
Q25	8-729-606-32	s	2SC2603
Q26	8-729-606-32	s	2SC2603
Q27	8-729-606-32	s	2SC2603
Q29	8-729-606-32	s	2SC2603
Q502	8-729-606-32	s	2SC2603
Q503	8-729-606-32	s	2SC2603
Q505	8-729-201-05	s	2SC2878-B
Q506	8-729-201-05	s	2SC2878-B
Q507	8-729-201-05	s	2SC2878-B
Q508	8-729-201-05	s	2SC2878-B
Q509	8-729-606-32	s	2SC2603
Q510	8-729-606-32	s	2SC2603
Q511	8-729-606-32	s	2SC2603
Q512	8-729-606-32	s	2SC2603
Q520	8-729-606-32	s	2SC2603
R72	1-207-621-00	s	WIREWOUND 1.5 10% 3W
R83	1-207-636-00	s	WIREWOUND 100 10% 3W
R84	1-244-849-00	s	CARBON 100 5% 1/2W
R502	1-212-708-00	s	METAL 180K 1% 1/2W
R504	1-212-715-00	s	METAL 360K 1% 1/2W
R505	1-212-715-00	s	METAL 360K 1% 1/2W
RB4	1-231-411-00	s	100Kx8
RB5	1-231-411-00	s	100Kx8
RB6	1-231-411-00	s	100Kx8
RB7	1-235-109-00	s	22Kx8
RB8	1-231-387-00	s	NETTY,RES 25K/50K
RV3	1-228-297-00	s	VAR,CERMET 100K
RV4	1-228-297-00	s	VAR,CERMET 100K
RV5	1-228-297-00	s	VAR,CERMET 100K
RV9	1-228-296-00	s	VAR,CERMET 50K
RV10	1-228-295-00	s	VAR,CERMET 20K
RV11	1-228-292-00	s	VAR,CERMET 2K
RV12	1-228-298-00	s	VAR,CERMET 200K
RV13	1-228-297-00	s	VAR,CERMET 100K
RV14	1-228-293-00	s	VAR,CERMET 5K
RV15	1-228-293-00	s	VAR,CERMET 5K
RV16	1-228-295-00	s	VAR,CERMET 20K
RV17	1-228-293-00	s	VAR,CERMET 5K
RV18	1-228-293-00	s	VAR,CERMET 5K
RV19	1-228-293-00	s	VAR,CERMET 5K
RV20	1-228-299-00	s	VAR,CERMET 500K
RV21	1-228-298-00	s	VAR,CERMET 200K
RV22	1-228-294-00	s	VAR,CERMET 10K
RV23	1-228-296-00	s	VAR,CERMET 50K
RV24	1-228-297-00	s	VAR,CERMET 100K
RV25	1-228-297-00	s	VAR,CERMET 100K
RV501	1-228-294-00	s	VAR,CERMET 10K
RV502	1-228-294-00	s	VAR,CERMET 10K
RV503	1-228-296-00	s	VAR,CERMET 50K
RV504	1-228-293-00	s	VAR,CERMET 5K
RV505	1-228-294-00	s	VAR,CERMET 10K
RV506	1-228-294-00	s	VAR,CERMET 10K
RV507	1-228-294-00	s	VAR,CERMET 10K
RV508	1-228-294-00	s	VAR,CERMET 10K
RV520	1-228-289-00	s	VAR,CERMET 200
X1	1-527-980-00	s	4.43MHz
X3	1-527-376-00	s	3.579545MHz

Ref.No.	Parts No.	SP	Description
SV-60 BOARD			
	A-6715-215-A	o	MOUNTED CIRCUIT BOARD,SV-60
C114	1-123-822-00	s	ELECT 47 20% 10V
C541	1-131-408-00	s	ELECT 1 10% 25V
C542	1-131-408-00	s	ELECT 1 10% 25V
CN3	1-564-405-11	o	RECEPTACLE,25P
CN4	1-564-404-11	o	RECEPTACLE,24P
D38	8-719-911-19	s	1SS119
D511	8-719-911-19	s	1SS119
D512	8-719-911-19	s	1SS119
D516	8-719-911-19	s	1SS119
IC1	8-759-240-81	s	TC4081BP(TOSHIBA)
IC2	8-759-245-32	s	TC4532BP(TOSHIBA)
IC3	8-759-240-81	s	TC4081BP(TOSHIBA)
IC4	8-759-240-81	s	TC4081BP(TOSHIBA)
IC5	8-759-240-30	s	TC4030BP(TOSHIBA)
IC6	8-759-240-71	s	TC4071BP(TOSHIBA)
IC7	8-759-940-94	s	MSM4094RS(OKI)
IC8	8-759-940-94	s	MSM4094RS(OKI)
IC9	8-759-940-94	s	MSM4094RS(OKI)
IC12	8-759-240-11	s	TC4011BP(TOSHIBA)
IC13	8-759-245-32	s	TC4532BP(TOSHIBA)
IC14	8-759-240-73	s	TC4073BP(TOSHIBA)
IC15	8-759-240-81	s	TC4081BP(TOSHIBA)
IC16	8-759-345-38	s	HD14538BP(HITACHI)
IC17	8-759-240-69	s	TC4069UBP(TOSHIBA)
IC18	8-759-240-75	s	TC4075BP(TOSHIBA)
IC19	8-759-345-38	s	HD14538BP(HITACHI)
IC20	8-759-240-71	s	TC4071BP(TOSHIBA)
RB1	1-231-411-00	s	100Kx8
RB2	1-231-411-00	s	100Kx8
RB3	1-231-411-00	s	100Kx8
SW-6 BOARD			
	1-611-543-00	o	PRINTED CIRCUIT BOARD,SW-6
CN1	1-564-413-11	o	RECEPTACLE,5P
S1	1-516-963-00	s	SLIDE "MONITOR"
S2	1-516-995-00	s	SLIDE "MIXING SELECT"
S3	1-516-994-00	s	SLIDE "LIMITER"
S4	1-516-994-00	s	SLIDE "MODE SELECT"
SW-7 BOARD			
	1-611-546-00	o	PRINTED CIRCUIT BOARD,SW-7
	1-557-236-11	o	FLAT CABLE,6P,SW7 TO SW8
CN1	1-564-414-11	o	RECEPTACLE,6P
CN2	1-564-412-11	o	RECEPTACLE,4P
CN3	1-564-415-11	o	RECEPTACLE,8P

Ref.No.	Parts No.	SP	Description
D1	8-719-812-44	s	LED,TLO124 "AUTO OFF"
D2	8-719-812-44	s	LED,TLO124 "HOLD"
S1	1-516-994-00	s	SLIDE "CTL/TC"
S2	1-516-994-00	s	SLIDE "STD/NON STD"
S3	1-516-995-00	s	SLIDE "INPUT SELECT"
S4	1-516-995-00	s	SLIDE "REMOE SELECT"

SW-8 BOARD

	1-611-547-00	o	PRINTED CIRCUIT BOARD,SW-8
S1	1-552-539-00	s	KEY "PRESET"
S2	1-552-539-00	s	KEY "ADVANCE"
S3	1-552-539-00	s	KEY "SHIFT"
S4	1-552-539-00	s	KEY "HOLD"

SW-13 BOARD

	1-611-539-00	o	PRINTED CIRCUIT BOARD,SW-13
R1	1-214-574-00	s	METAL 5.1K 1% 1/8W
R2	1-214-535-00	s	METAL 120 1% 1/8W
R3	1-214-540-00	s	METAL 200 1% 1/8W
R4	1-214-579-00	s	METAL 8.2K 1% 1/8W
R5	1-214-574-00	s	METAL 5.1K 1% 1/8W
R6	1-214-559-00	s	METAL 1.2K 1% 1/8W
R7	1-214-559-00	s	METAL 1.2K 1% 1/8W
R101	1-214-574-00	s	METAL 5.1K 1% 1/8W
R102	1-214-535-00	s	METAL 120 1% 1/8W
R103	1-214-540-00	s	METAL 200 1% 1/8W
R104	1-214-579-00	s	METAL 8.2K 1% 1/8W
R105	1-214-574-00	s	METAL 5.1K 1% 1/8W
R106	1-214-559-00	s	METAL 1.2K 1% 1/8W
R107	1-214-559-00	s	METAL 1.2K 1% 1/8W
S1	1-516-272-21	s	SLIDE "CH-2 LEVEL"
S2	1-516-576-00	s	SLIDE "CH-2 600ohm"
S101	1-516-272-21	s	SLIDE "CH-1 LEVEL"
S102	1-516-576-00	s	SLIDE "CH-1 600ohm"

Ref.No.	Parts No.	SP	Description

SWITCHING REGULATOR UR-09

⚠	1-413-166-11	s	SWITCHING REGULATOR UR-09

UR-09 C-1 BOARD

	A-4925-035-A	o	MOUNTED CIRCUIT BOARD,UR-09 C-1
C171	1-136-141-00	s	MYLAR 0.001 10% 50V
C172	1-136-141-00	s	MYLAR 0.001 10% 50V
C173	1-124-126-00	s	ELECT 47 20% 25V
C174	1-131-416-00	s	TANTALUM 1.5 20% 16V
C175	1-130-652-00	s	FILM 3600P 2% 100V
C176	1-136-165-00	s	MYLAR 0.1 10% 50V
C177	1-136-145-00	s	MYLAR 0.0022 10% 50V
C178	1-124-330-00	s	ELECT 22 20% 50V
CN171	1-560-741-00	o	12P
D171	8-719-981-01	s	ERA81-004
D172	8-719-981-01	s	ERA81-004
D173	8-719-981-01	s	ERA81-004
D174	8-719-981-01	s	ERA81-004
D175	8-719-815-55	s	1S1555
D176	8-719-100-38	s	RD6.2EB2
D177	8-719-107-87	s	03P2M
D178	8-719-911-19	s	1SS119
IC171	8-759-937-59	s	MB3759 (FUJITSU)
L171	1-408-409-00	s	10uH
Q171	8-729-177-43	s	2SD774
Q172	8-729-177-43	s	2SD774
Q173	8-729-178-54	s	2SC2785
Q174	8-729-117-52	s	2SA1175
⚠ R173	1-247-131-00	s	CARBON 1K 5% 1/4W
RV171	1-228-865-11	s	TANTALUM 500

UR-09 C-2 BOARD

	A-4295-036-A	o	MOUNTED CIRCUIT BOARD,UR-09 C-2
C271	1-136-141-00	s	MYLAR 0.001 10% 50V
C272	1-136-141-00	s	MYLAR 0.001 10% 50V
C273	1-124-126-00	s	ELECT 47 20% 25V
C274	1-131-416-00	s	TANTALUM 1.5 20% 16V
C275	1-130-652-00	s	FILM 3600P 2% 100V

Ref.No.	Parts No.	SP	Description
C276	1-136-165-00	s	MYLAR 0.1 10% 50V
C277	1-130-016-00	s	FILM 680P 5% 50V
C278	1-123-318-00	s	ELECT 33 20% 16V
CN271	1-560-741-00	o	12P
D271	8-719-981-01	s	ERA81-004
D272	8-719-981-01	s	ERA81-004
D273	8-719-981-01	s	ERA81-004
D274	8-719-981-01	s	ERA81-004
D275	8-719-815-55	s	1S1555
D276	8-719-100-71	s	RD15EB2
D277	8-719-107-87	s	03P2M
D278	8-719-911-19	s	1SS119
IC271	8-759-937-59	s	MB3759 (FUJITSU)
L271	1-408-409-00	s	10uH
Q271	8-729-177-43	s	2SD774
Q272	8-729-177-43	s	2SD774
Q273	8-729-178-54	s	2SC2785
Q274	8-729-117-52	s	2SA1175
⚠ R273	1-247-131-00	s	CARBON 1K 5% 1/4W
R276	1-247-904-49	s	CARBON 4700 2% 1/6W
RV271	1-228-865-11	s	TANTALUM 500

UR-09 C-3 BOARD

	A-4925-037-A	o	MOUNTED CIRCUIT BOARD,UR-09 C-3
C371	1-136-141-00	s	MYLAR 0.001 10% 50V
C372	1-136-141-00	s	MYLAR 0.001 10% 50V
C373	1-131-416-00	s	TANTALUME 1.5 20% 16V
C374	1-124-126-00	s	ELECT 47 20% 25V
C375	1-130-652-00	s	FILM 3600P 2% 100V
C376	1-130-015-00	s	FILM 560P 5% 50V
C377	1-136-169-00	s	MYLAR 0.22 10% 50V
C378	1-124-034-51	s	ELECT 33 20% 16V
C379	1-123-356-00	s	ELECT 10 20% 50V
CN371	1-560-741-00	o	12P
D371	8-719-981-01	s	1S2076A
D372	8-719-981-01	s	1S2076A
D373	8-719-981-01	s	1S2076A
D374	8-719-981-01	s	1S2076A
D375	8-719-815-55	s	1S1555
D376	8-719-100-85	s	RD22EB1
D377	8-719-107-87	s	03P2M

Ref.No.	Parts No.	SP	Description
IC371	8-759-937-59	s	MB3759 (FUJITSU)
L371	1-408-409-00	s	10uH
Q371	8-729-177-43	s	2SD774
Q372	8-729-177-43	s	2SD774
Q373	8-729-178-54	s	2SC2785
Q374	8-729-117-52	s	2SA1175
Q375	8-729-117-52	s	2SA1175
⚠ R373	1-247-131-00	s	CARBON 1K 5% 1/4W
R376	1-247-904-49	s	CARBON 4.7K 2% 1/6W
RV371	1-228-865-11	s	TANTALUM 500

UR-09 CN BOARD

	A-4925-034-A	o	MOUNTED CIRCUIT BOARD,UR-09 CN
C271	1-124-038-00	s	ELECT 1 20% 50V
C272	1-124-518-51	s	ELECT 470 20% 6.3V
C273	1-124-518-51	s	ELECT 470 20% 6.3V
C274	1-124-038-00	s	ELECT 1 20% 50V
C275	1-124-522-51	s	ELECT 270 20% 16V
C276	1-124-522-51	s	ELECT 270 20% 16V
C277	1-124-038-00	s	ELECT 1 20% 50V
C278	1-124-522-51	s	ELECT 270 20% 16V
C279	1-124-522-51	s	ELECT 270 20% 16V
C280	1-124-539-51	s	ELECT 330 20% 35V
	1-564-089-11	o	PIN,CONNECTOR 10P (x7)
CN271	1-560-300-00	o	RECEPTACLE,3P
D271	8-719-100-13	s	RD2.7EB2
D272	8-719-100-27	s	RD4.7EB2
D273	8-719-911-19	s	1SS119
D274	8-719-911-19	s	1SS119
D275	8-719-911-19	s	1SS119
D276	8-719-911-19	s	1SS119
D277	8-719-911-19	s	1SS119
D278	8-719-911-19	s	1SS119
D279	8-719-911-19	s	1SS119
D280	8-719-911-19	s	1SS119
D281	8-719-911-19	s	1SS119
D282	8-719-200-01	s	10E-1
D283	8-719-200-01	s	10E-1
IC271	8-759-908-15	s	TL431CLP (TI)
IC272	8-759-908-15	s	TL431CLP (TI)
IC273	8-759-908-15	s	TL431CLP (TI)

Ref.No.	Parts No.	SP	Description
L271	1-421-459-00	s	CHOKE
L272	1-421-465-00	s	CHOKE
L273	1-421-465-00	s	CHOKE
L274	1-421-421-00	s	CHOKE
L275	1-421-421-00	s	CHOKE
Q271	8-729-178-54	s	2SC2785
Q272	8-729-178-54	s	2SC2785
⚠ R271	1-247-079-00	s	CARBON 4.7 5% 1/4W
R275	1-247-123-00	s	CARBON 470 5% 1/4W
R276	1-247-123-00	s	CARBON 470 5% 1/4W
R279	1-247-123-00	s	CARBON 470 5% 1/4W
RV271	1-228-865-11	s	TANTALUM 500
RV272	1-228-865-11	s	TANTALUM 500
RV273	1-228-865-11	s	TANTALUM 500

UR-09 M BOARD

	1-611-861-11	o	PRINTED CIRCUIT BOARD,UR-09 M
⚠ C101	1-136-185-00	s	FILM 0.22 20% 250V
C102	1-136-185-00	s	FILM 0.22 20% 250V
C103	1-136-185-00	s	FILM 0.22 20% 250V
C104	1-161-953-00	s	CERAMIC 4700P 20% 400V
C105	1-161-953-00	s	CERAMIC 4700P 20% 400V
C106	1-161-953-00	s	CERAMIC 4700P 20% 400V
C107	1-161-953-00	s	CERAMIC 4700P 20% 400V
C108	1-161-742-00	s	CERAMIC 2200P 20% 400V
C109	1-161-742-00	s	CERAMIC 2200P 20% 400V
C110	1-161-742-00	s	CERAMIC 2200P 20% 400V
C111	1-161-742-00	s	CERAMIC 2200P 20% 400V
C112	1-125-267-00	s	ELECT 300 20% 400V
C113	1-125-267-00	s	ELECT 300 20% 400V
C114	1-125-267-00	s	ELECT 300 20% 400V
C115	1-123-601-00	s	ELECT 4.7 20% 250V
C116	1-123-601-00	s	ELECT 4.7 20% 250V
C117	1-123-601-00	s	ELECT 4.7 20% 250V
C118	1-123-601-00	s	ELECT 4.7 20% 250V
C119	1-123-601-00	s	ELECT 4.7 20% 250V
C120	1-123-601-00	s	ELECT 4.7 20% 250V
C121	1-161-911-11	s	CERAMIC 470P 10% 500V
C122	1-161-911-11	s	CERAMIC 470P 10% 500V
C123	1-124-490-51	s	ELECT 470 20% 25V
C125	1-130-808-00	s	FILM 0.22 10% 400V
C201	1-124-527-51	s	ELECT 8200 20% 6.3V
C202	1-124-527-51	s	ELECT 8200 20% 6.3V
C203	1-124-527-51	s	ELECT 8200 20% 6.3V
C204	1-124-521-51	s	ELECT 6800 20% 10V
C205	1-124-520-51	s	ELECT 3300 20% 10V
C206	1-124-525-51	s	ELECT 1000 20% 25V
C207	1-124-490-51	s	ELECT 470 20% 25V
C208	1-106-343-00	s	MYLAR 0.001 10% 200V
C209	1-106-343-00	s	MYLAR 0.001 10% 200V
C210	1-161-825-11	s	CERAMIC 220P 10% 500V
C211	1-161-825-11	s	CERAMIC 220P 10% 500V

Ref.No.	Parts No.	SP	Description
C212	1-124-490-51	s	ELECT 470 20% 25V
C213	1-136-165-00	s	MYLAR 0.1 10% 50V
C214	1-136-159-00	s	MYLAR 0.033 10% 50V
C215	1-136-159-00	s	MYLAR 0.033 10% 50V
C217	1-130-918-00	s	FILM 200P 5% 50V
C218	1-136-153-00	s	MYLAR 0.01 10% 50V
C219	1-124-446-00	s	ELECT 47 20% 10V
C220	1-136-153-00	s	MYLAR 0.01 10% 50V
C221	1-136-153-00	s	MYLAR 0.01 10% 50V
C222	1-136-165-00	s	MYLAR 0.1 10% 50V
C223	1-136-165-00	s	MYLAR 0.1 10% 50V
C224	1-136-153-00	s	MYLAR 0.01 10% 50V
C225	1-124-523-11	s	ELECT 4700 20% 16V
C226	1-124-523-11	s	ELECT 4700 20% 16V
C227	1-124-523-11	s	ELECT 4700 20% 16V
C228	1-124-440-11	s	ELECT 3300 20% 25V
C229	1-124-526-00	s	ELECT 1800 20% 25V
C230	1-106-343-00	s	MYLAR 0.001 10% 200V
C231	1-106-343-00	s	MYLAR 0.001 10% 200V
C232	1-136-165-00	s	MYLAR 0.1 10% 50V
C233	1-136-159-00	s	MYLAR 0.033 10% 50V
C234	1-136-159-00	s	MYLAR 0.033 10% 50V
C235	1-136-165-00	s	MYLAR 0.1 10% 50V
C236	1-136-165-00	s	MYLAR 0.1 10% 50V
C237	1-124-523-11	s	ELECT 4700 20% 16V
C238	1-124-523-11	s	ELECT 4700 20% 16V
C239	1-124-523-11	s	ELECT 4700 20% 16V
C240	1-124-440-11	s	ELECT 3300 20% 25V
C241	1-124-526-00	s	ELECT 1800 20% 25V
C242	1-124-440-11	s	ELECT 3300 20% 25V
C243	1-124-526-00	s	ELECT 1800 20% 25V
C244	1-106-343-00	s	MYLAR 0.001 10% 200V
C245	1-106-343-00	s	MYLAR 0.001 10% 200V
C246	1-136-165-00	s	MYLAR 0.1 10% 50V
C247	1-136-159-00	s	MYLAR 0.033 10% 50V
C248	1-136-159-00	s	MYLAR 0.033 10% 50V
C249	1-136-165-00	s	MYLAR 0.1 10% 50V
C250	1-136-165-00	s	MYLAR 0.1 10% 50V
C251	1-136-153-00	s	MYLAR 0.01 10% 50V
CN204	1-560-300-00	o	RECEPTACLE,3P
D101	8-719-500-12	s	S10VB60
D102	8-719-902-42	s	ESAC33-02CV-F1
D103	8-719-911-19	s	1SS119
D104	8-719-100-89	s	RD24EB1
D201	8-719-300-29	s	CTG-31S
D202	8-719-903-16	s	ESAC85-009
D203	8-719-903-16	s	ESAC85-009
D204	8-719-902-42	s	ESAC33-02CV-F1
D205	8-719-104-07	s	F114E
D206	8-719-100-89	s	RD24EB1
D207	8-719-100-85	s	RD22EB1
D208	8-719-100-47	s	RD8.2EB1
D209	8-719-200-02	s	10E-2
D210	8-719-911-19	s	1SS119
D211	8-719-911-19	s	1SS119

Ref.No.	Parts No.	SP	Description
D212	8-719-911-19	s	1SS119
D213	8-719-911-19	s	1SS119
D214	8-719-902-43	s	ESAD33-02-CS
D215	8-719-902-42	s	ESAC33-02CV-F1
D216	8-719-100-89	s	RD24EB1
D217	8-719-100-85	s	RD22EB1
D218	8-719-911-19	s	1SS119
D219	8-719-911-19	s	1SS119
D220	8-719-911-19	s	1SS119
D221	8-719-911-19	s	1SS119
D222	8-719-901-56	s	ESAD33-02N
D223	8-729-902-86	s	ESAC33-02-NV-F1
D224	8-719-908-00	s	ESAC33-02CS
D225	8-719-100-98	s	RD30EB2
D226	8-719-100-89	s	RD24EB1
D227	8-719-100-85	s	RD22EB1
D228	8-719-100-85	s	RD22EB1
D229	8-719-911-19	s	1SS119
D230	8-719-911-19	s	1SS119
D231	8-719-911-19	s	1SS119
D232	8-719-911-19	s	1SS119
D233	8-719-100-70	s	RD15EB1
⚠ F101	1-532-604-00	s	5A 250V
IC101	8-759-171-12	s	uPC7812H (NEC)
IC201	8-759-171-15	s	uPC7815H (NEC)
IC202	8-759-178-05	s	uPC78L05 (NEC)
IC203	8-759-245-28	s	TC4528BP (TOSHIBA)
IC204	8-759-908-15	s	TL431CLP (TI)
L101	1-410-042-11	s	CHOKE
⚠ L102	1-421-395-00	s	FILTER,LINE
L103	1-421-557-11	s	4.4mH
L104	1-410-042-11	s	CHOKE
L201	1-421-505-21	s	47uH
L202	1-421-431-00	s	CHOKE
L203	1-410-047-11	s	CHOKE
L204	1-421-506-00	s	6.2uH
L205	1-421-459-00	s	CHOKE
L206	1-421-507-11	s	96uH
L207	1-421-431-00	s	CHOKE
L208	1-421-506-00	s	6.2uH
L209	1-421-459-00	s	CHOKE
L210	1-421-554-21	s	200uH
L211	1-421-431-00	s	CHOKE
L212	1-421-431-00	s	CHOKE
L213	1-421-459-00	s	CHOKE
L214	1-421-459-00	s	CHOKE
L215	1-421-459-00	s	CHOKE
PS101	1-532-605-00	s	LINK,IC

Ref.No.	Parts No.	SP	Description
Q101	8-729-301-76	s	STR-8124-R
Q102	8-729-301-76	s	STR-8124-R
Q103	8-729-301-76	s	STR-8124-R
Q201	8-729-331-53	s	2SC2315
Q202	8-729-331-53	s	2SC2315
Q203	8-729-331-53	s	2SC2315
Q204	8-729-331-53	s	2SC2315
Q205	8-729-331-53	s	2SC2315
Q206	8-729-178-52	s	2SC2785
Q207	8-729-117-52	s	2SA1175
Q208	8-729-117-52	s	2SA1175
Q209	8-729-177-52	s	2SA1175
Q210	8-729-178-52	s	2SC2785
Q211	8-729-178-52	s	2SC2785
Q212	8-729-177-52	s	2SA1175
Q213	8-729-177-52	s	2SA1175
Q214	8-729-177-52	s	2SA1175
Q215	8-729-177-52	s	2SA1175
Q216	8-729-177-52	s	2SA1175
Q217	8-729-177-52	s	2SA1175
⚠ R101	1-205-636-11	s	CEMENT 3.3 5% 5W
R102	1-205-636-11	s	CEMENT 3.3 5% 5W
R103	1-205-636-11	s	CEMENT 3.3 5% 5W
R104	1-205-625-00	s	CEMENT 220 5% 5W
R201	1-205-622-00	s	CEMENT 33 5% 5W
R203	1-247-679-61	s	CARBON 120 5% 1/4W
R204	1-205-623-00	s	CEMENT 47 5% 5W
R205	1-247-683-61	s	CARBON 470 5% 1/4W
R228	1-205-622-00	s	CEMENT 33 5% 5W
R231	1-247-679-61	s	CARBON 120 5% 1/4W
R232	1-205-623-00	s	CEMENT 47 5% 5W
R239	1-205-622-00	s	CEMENT 33 5% 5W
R241	1-247-679-61	s	CARBON 120 5% 1/4W
R242	1-205-623-00	s	CEMENT 47 5% 5W
RY101	1-515-357-00	s	RELAY
⚠ T101	1-447-746-11	s	CONVERTER
T102	1-421-460-00	s	CURRENT
T103	1-437-120-00	s	DRIVE
T104	1-447-748-11	s	CONVERTER
T105	1-421-460-00	s	CURRENT
T106	1-437-120-00	s	DRIVE
T107	1-447-747-11	s	CONVERTER
T108	1-421-460-00	s	CURRENT
T109	1-437-120-00	s	DRIVE
T110	1-447-426-12	s	CONVERTER
T111	1-447-753-11	s	CONVERTER

Ref.No.	Parts No.	SP	Description
	UR-09 ST-21 BOARD		
	1-607-595-13	o	PRINTED CIRCUT BOARD,ST-21
C351	1-130-512-00	s	MYLAR 0.0047 10% 50V
C352	1-124-043-51	s	ELECT 2.2 20% 50V
C353	1-124-043-51	s	ELECT 2.2 20% 50V
CN351	1-564-090-11	o	5P
D351	8-719-104-07	s	F114E
D352	8-719-104-07	s	F114E
D353	8-719-100-29	s	RD5.1EB1
D354	8-719-923-76	s	1S2076A
D355	8-719-923-76	s	1S2076A
D356	8-719-923-76	s	1S2076A
D357	8-719-923-76	s	1S2076A
D358	8-719-100-16	s	RD3.3EB1
Q351	8-729-175-22	s	2SC2752
Q352	8-729-115-63	s	2SA1156
Q353	8-729-102-02	s	2SD1020
⚠ R353	1-247-115-00	s	CARBON 220 5% 1/4W
R354	1-247-115-00	s	CARBON 220 5% 1/4W
R355	1-247-103-00	s	CARBON 68 5% 1/4W
	UR-09 FRAME		
CN901	1-508-840-00	o	RECEPTACLE HOUSING,9P
	1-535-072-00	s	CONTACT,FEMALE
CN902	1-509-890-00	o	RECEPTACLE HOUSING,12P
	1-535-072-00	s	CONTACT,FEMALE
⚠ CN903	1-509-889-00	o	PULG HOUSING,12P
	1-535-070-00	o	CONTACT,MALE
TS201	1-554-047-00	s	SWITCH,THERMAL REED AC/DC 120V 0.5A
	1-541-209-00	s	MOTOR,BRUSHLESS FAN DC 24V
	SY-4 BOARD		
	A-6717-341-A	o	MOUNTED CIRCUIT BOARD,SY-4
C2	1-123-821-00	s	ELECT 47 20% 16V
C5	1-102-110-00	s	CERAMIC 220PF 10% 50V
C6	1-102-110-00	s	CERAMIC 220PF 10% 50V
C8	1-102-110-00	s	CERAMIC 220PF 10% 50V
C9	1-102-110-00	s	CERAMIC 220PF 10% 50V
C10	1-102-110-00	s	CERAMIC 220PF 10% 50V
C11	1-102-114-00	s	CERAMIC 470PF 10% 50V
C15	1-102-114-00	s	CERAMIC 470PF 10% 50V
C18	1-102-112-00	s	CERAMIC 330PF 10% 50V
C19	1-102-110-00	s	CERAMIC 220PF 10% 50V

Ref.No.	Parts No.	SP	Description
C20	1-102-110-00	s	CERAMIC 220PF 10% 50V
C21	1-102-110-00	s	CERAMIC 220PF 10% 50V
C22	1-102-110-00	s	CERAMIC 220PF 10% 50V
C25	1-102-110-00	s	CERAMIC 220PF 10% 50V
C26	1-102-110-00	s	CERAMIC 220PF 10% 50V
C27	1-102-110-00	s	CERAMIC 220PF 10% 50V
C31	1-102-106-00	s	CERAMIC 100PF 10% 50V
C32	1-107-205-00	s	MICA 13PF 5% 500V
CN1	1-560-454-31	o	HEADER,40P
CN2	1-560-454-31	o	HEADER,40P
D1	8-719-911-19	s	1SS119
D2	8-719-911-19	s	1SS119
D3	8-719-911-19	s	1SS119
D4	8-719-911-19	s	1SS119
D5	8-719-911-19	s	1SS119
D6	8-719-911-19	s	1SS119
D7	8-719-911-19	s	1SS119
IC1	8-759-926-31	s	AM26LS31PC(AMD)
IC2	8-759-926-32	s	AM26LS32PC(AMD)
IC3	8-759-200-39	s	TC40H240P(TOSHIBA)
IC4	8-759-902-44	s	SN74LS244N(TI)
IC5	8-759-902-44	s	SN74LS244N(TI)
IC6	8-759-902-44	s	SN74LS244N(TI)
IC7	8-759-940-94	s	MSM4094RS(OKI)
IC8	8-759-900-32	s	SN74LS32N(TI)
IC9	8-759-729-03	s	NJM2903D(JRC)
IC10	8-759-926-32	s	AM26LS32PC(AMD)
IC11	8-759-926-31	s	AM26LS31PC(AMD)
IC12	8-759-200-39	s	TC40H240P(TOSHIBA)
IC13	8-759-902-44	s	SN74LS244N(TI)
IC14	8-759-902-44	s	SN74LS244N(TI)
IC15	8-759-940-94	s	MSM4094RS(OKI)
IC16	8-759-902-40	s	SN74LS240N(TI)
IC17	8-759-145-84	s	uPD4584BC(NEC)
IC18	8-759-600-61	s	M54529AP(MITSUBISHI)
IC19	8-759-200-39	s	TC40H240P(TOSHIBA)
IC20	8-759-902-44	s	SN74LS244N(TI)
IC21	8-759-902-44	s	SN74LS244N(TI)
IC22	8-759-240-21	s	TC4021BP(TOSHIBA)
IC23	8-759-240-21	s	TC4021BP(TOSHIBA)
IC24	8-759-240-21	s	TC4021BP(TOSHIBA)
IC25	8-759-240-21	s	TC4021BP(TOSHIBA)
IC26	8-759-900-37	s	SN74LS37N(TI)
IC27	8-759-600-61	s	M54529AP(MITSUBISHI)
IC28	8-759-600-61	s	M54529AP(MITSUBISHI)
IC29	8-759-240-21	s	TC4021BP(TOSHIBA)
IC30	8-759-200-46	s	TC40H273P(TOSHIBA)
IC31	8-759-200-46	s	TC40H273P(TOSHIBA)
IC32	8-759-200-46	s	TC40H273P(TOSHIBA)
IC33	8-759-200-46	s	TC40H273P(TOSHIBA)
IC34	8-759-200-46	s	TC40H273P(TOSHIBA)
IC35	8-759-200-46	s	TC40H273P(TOSHIBA)
IC36	8-759-200-46	s	TC40H273P(TOSHIBA)
IC37	8-759-902-40	s	SN74LS240N(TI)
IC38	8-759-902-40	s	SN74LS240N(TI)
IC39	8-759-240-81	s	TC4081BP(TOSHIBA)
IC40	8-759-240-21	s	TC4021BP(TOSHIBA)
IC41	8-759-200-46	s	TC40H273P(TOSHIBA)
IC42	8-759-200-46	s	TC40H273P(TOSHIBA)
IC43	8-759-200-46	s	TC40H273P(TOSHIBA)
IC44	8-759-200-46	s	TC40H273P(TOSHIBA)
IC45	8-759-200-46	s	TC40H273P(TOSHIBA)

Ref.No.	Parts No.	SP	Description
R160	1-216-085-00	s	CHIP,METAL 33K 5% 1/10W
R161	1-216-073-00	s	CHIP,METAL 10K 5% 1/10W
R162	1-216-101-00	s	CHIP,METAL 150K 5% 1/10W
R163	1-216-073-00	s	CHIP,METAL 10K 5% 1/10W
R164	1-216-073-00	s	CHIP,METAL 10K 5% 1/10W
RV7	1-228-474-00	s	VAR,CERMET 10K

YC-14 BOARD

C18	1-109-692-00	s	MICA 620PF 1% 500V
C55	1-107-204-00	s	MICA 12PF 5% 500V
C56	1-107-204-00	s	MICA 12PF 5% 500V
C59	1-109-689-00	s	MICA 470PF 5% 500V
C70	1-123-617-00	s	ELECT 10 20% 16V
C71	1-123-617-00	s	ELECT 10 20% 16V
C76	1-107-159-00	s	MICA 33PF 5% 500V
C77	1-161-025-00	s	CERAMIC 0.1 10% 25V
C78	1-123-822-00	s	ELECT 47 20% 10V
C79	1-123-822-00	s	ELECT 47 20% 10V
C80	1-161-025-00	s	CERAMIC 0.1 10% 25V
C82	1-109-686-00	s	MICA 360PF 5% 500V
C83	1-107-202-00	s	MICA 10PF 5% 500V
C84	1-102-112-00	s	CERAMIC 330PF 10% 50V
C85	1-107-205-00	s	MICA 13PF 5% 500V
C91	1-123-822-00	s	ELECT 47 20% 10V
C92	1-123-822-00	s	ELECT 47 20% 10V
C202	1-123-822-00	s	ELECT 47 20% 10V
C221	1-109-692-00	s	MICA 620PF 1% 500V
C222	1-107-202-00	s	MICA 10PF 5% 500V
C255	1-107-204-00	s	MICA 12PF 5% 500V
C256	1-107-204-00	s	MICA 12PF 5% 500V
C257	1-109-689-00	s	MICA 470PF 5% 500V
C268	1-123-617-00	s	ELECT 10 20% 16V
C269	1-123-617-00	s	ELECT 10 20% 16V
C274	1-107-159-00	s	MICA 33PF 5% 500V
C277	1-161-025-00	s	CERAMIC 0.1 10% 25V
C278	1-123-822-00	s	ELECT 47 20% 10V
C279	1-109-687-00	s	MICA 390PF 5% 500V
C280	1-109-686-00	s	MICA 360PF 5% 500V
C284	1-102-112-00	s	CERAMIC 330PF 10% 50V
C285	1-107-205-00	s	MICA 13PF 5% 500V
C291	1-123-822-00	s	ELECT 47 20% 10V
C292	1-123-822-00	s	ELECT 47 20% 10V
C294	1-107-202-00	s	MICA 10PF 5% 500V
C406	1-123-822-00	s	ELECT 47 20% 10V
C412	1-123-821-00	s	ELECT 47 20% 16V
C418	1-123-821-00	s	ELECT 47 20% 16V
C420	1-123-821-00	s	ELECT 47 20% 16V
C422	1-107-210-00	s	MICA 22PF 5% 500V
C425	1-107-202-00	s	MICA 10PF 5% 500V
C430	1-123-822-00	s	ELECT 47 20% 10V
C434	1-123-821-00	s	ELECT 47 20% 16V
C455	1-107-157-00	s	MICA 27PF 5% 500V
C491	1-107-047-00	s	MICA 5.6PF 500V
C493	1-107-047-00	s	MICA 5.6PF 500V
C496	1-123-324-00	s	ELECT 1000 20% 16V
C497	1-107-157-00	S	MICA 27PF 5% 500V
C510	1-107-209-00	s	MICA 20PF 5% 500V
C512	1-107-043-00	s	MICA 2.7PF 500V
C513	1-107-204-00	s	MICA 12PF 5% 500V
C515	1-107-204-00	s	MICA 12PF 5% 500V
C519	1-124-473-11	s	ELECT 1000 20% 10V
C520	1-107-205-00	s	MICA 13PF 5% 500V
C523	1-109-692-00	s	MICA 620PF 1% 500V
C530	1-124-472-00	s	ELECT 470 20% 10V
C564	1-107-208-00	s	MICA 18PF 5% 500V

Ref.No.	Parts No.	SP	Description
C565	1-107-202-00	s	MICA 10PF 5% 500V
C568	1-123-822-00	s	ELECT 47 20% 10V
C571	1-124-471-00	s	ELECT 1000 20% 6.3V
C575	1-123-821-00	s	ELECT 47 20% 16V
C577	1-161-025-00	s	CERAMIC 0.1 10% 25V
C585	1-107-206-00	s	MICA 15PF 5% 500V
C604	1-123-821-00	s	ELECT 47 20% 16V
C605	1-123-821-00	s	ELECT 47 20% 16V
C616	1-124-473-11	s	ELECT 1000 20% 10V
C619	1-123-821-00	s	ELECT 47 20% 16V
C622	1-123-821-00	s	ELECT 47 20% 16V
C623	1-123-821-00	s	ELECT 47 20% 16V
C624	1-107-209-00	s	MICA 20PF 5% 500V
C626	1-123-822-00	s	ELECT 47 20% 10V
C627	1-123-821-00	s	ELECT 47 20% 16V
C628	1-123-617-00	s	ELECT 10 20% 16V
C629	1-107-210-00	s	MICA 22PF 5% 500V
C706	1-123-821-00	s	ELECT 47 20% 16V
C708	1-107-202-00	s	MICA 10PF 5% 500V
C712	1-123-821-00	s	ELECT 47 20% 16V
C717	1-123-821-00	s	ELECT 47 20% 16V
C719	1-123-822-00	s	ELECT 47 20% 10V
C720	1-123-821-00	s	ELECT 47 20% 16V
C724	1-107-210-00	s	MICA 22PF 5% 500V
C726	1-107-157-00	s	MICA 27PF 5% 500V
C727	1-107-202-00	s	MICA 10PF 5% 500V
C729	1-102-106-00	s	CERAMIC 100PF 10% 50V
C731	1-123-822-00	s	ELECT 47 20% 10V
C736	1-123-821-00	s	ELECT 47 20% 16V
C790	1-124-473-11	s	ELECT 1000 20% 10V
C792	1-107-205-00	s	MICA 13PF 5% 500V
C793	1-107-204-00	s	MICA 12PF 5% 500V
C794	1-109-692-00	s	MICA 620PF 1% 500V
C796	1-124-475-11	s	ELECT 470 20% 16V
C812	1-107-202-00	s	MICA 10PF 5% 500V
C813	1-107-204-00	s	MICA 12PF 5% 500V
C815	1-107-204-00	s	MICA 12PF 5% 500V
C840	1-107-043-00	s	MICA 2.7PF 500V
C859	1-107-208-00	s	MICA 18PF 5% 500V
C860	1-107-202-00	s	MICA 10PF 5% 500V
C863	1-123-822-00	s	ELECT 47 20% 10V
C866	1-124-471-00	s	ELECT 1000 20% 6.3V
C870	1-123-821-00	s	ELECT 47 20% 16V
C872	1-161-025-00	s	CERAMIC 0.1 10% 25V
C880	1-107-206-00	s	MICA 15PF 5% 500V
C1002	1-131-342-00	s	ELECT 0.15 10% 25V
C1003	1-131-342-00	s	ELECT 0.15 10% 25V
C1017	1-109-165-00	s	MICA 620PF 5% 300V
C1018	1-107-202-00	s	MICA 10PF 5% 500V
C1031	1-107-209-00	s	MICA 20PF 5% 500V
C1032	1-161-013-00	s	CERAMIC 0.01 10% 25V
C1033	1-161-013-00	s	CERAMIC 0.01 10% 25V
C1102	1-123-617-00	s	ELECT 10 20% 16V
CN401	1-560-733-00	s	PIN,SHORT
	1-561-832-00	s	SOCKET,SHORT
CN402	1-560-733-00	s	PIN,SHORT
	1-561-832-00	s	SOCKET,SHORT
CN801	1-560-733-00	s	PIN,SHORT
	1-561-832-00	s	SOCKET,SHORT

Ref.No.	Parts No.	SP	Description
D1	8-719-911-19	s	1SS119
D2	8-719-911-19	s	1SS119
D3	8-719-911-19	s	1SS119
D4	8-719-911-19	s	1SS119
D5	8-719-911-19	s	1SS119
D6	8-719-911-19	s	1SS119
D7	8-719-151-07	s	RD5.1E-B
D8	8-719-709-25	s	1S1925-P
D9	8-719-709-25	s	1S1925-P
D10	8-719-911-19	s	1SS119
D11	8-719-911-19	s	1SS119
D12	8-719-911-19	s	1SS119
D13	8-719-911-19	s	1SS119
D14	8-719-911-19	s	1SS119
D15	8-719-911-19	s	1SS119
D16	8-719-911-19	s	1SS119
D17	8-719-911-19	s	1SS119
D201	8-719-911-19	s	1SS119
D202	8-719-911-19	s	1SS119
D204	8-719-911-19	s	1SS119
D205	8-719-911-19	s	1SS119
D206	8-719-911-19	s	1SS119
D207	8-719-911-19	s	1SS119
D208	8-719-151-07	s	RD5.1E-B
D209	8-719-709-25	s	1S1925-P
D210	8-719-709-25	s	1S1925-P
D211	8-719-911-19	s	1SS119
D212	8-719-911-19	s	1SS119
D213	8-719-911-19	s	1SS119
D214	8-719-911-19	s	1SS119
D215	8-719-911-19	s	1SS119
D401	8-719-162-07	s	RD6.2E-B
D402	8-719-151-07	s	RD5.1E-B
D403	8-719-911-19	s	1SS119
D404	8-719-911-19	s	1SS119
D405	8-719-911-19	s	1SS119
D406	8-719-911-19	s	1SS119
D407	8-719-191-07	s	RD9.1E-B
D408	8-719-911-19	s	1SS119
D409	8-719-911-19	s	1SS119
D410	8-719-162-07	s	RD6.2E-B
D601	8-719-101-97	s	1SS97-1
D602	8-719-101-97	s	1SS97-1
D701	8-719-162-07	s	RD6.2E-B
D702	8-719-151-07	s	RD5.1E-B
D703	8-719-911-19	s	1SS119
D704	8-719-911-19	s	1SS119
D705	8-719-911-19	s	1SS119
D706	8-719-162-07	s	RD6.2E-B
D1002	8-719-151-07	s	RD5.1E-B
D1003	8-719-815-55	s	1S1555
D1004	8-719-815-55	s	1S1555
D1005	8-719-911-19	s	1SS119
D1006	8-719-151-07	s	RD5.1E-B
D1007	8-719-815-55	s	1S1555
D1008	8-719-815-55	s	1S1555
D1009	8-719-911-19	s	1SS119
D1010	8-719-911-19	s	1SS119

Ref.No.	Parts No.	SP	Description
DL201	1-415-339-00	s	300ns
DL401	1-415-154-00	s	1MHz 35ns
DL402	1-415-154-00	s	1MHz 35ns
DL503	1-415-184-00	s	100ns
DL601	1-415-308-00	s	700ns
DL701	1-415-154-00	s	1MHz 35ns
DL702	1-415-154-00	s	1MHz 35ns
DL802	1-415-184-00	s	100ns
IC1	8-741-128-20	s	BX1282(SONY)
IC2	8-749-936-51	s	BX365A(SONY)
IC3	8-759-990-82	s	TL082CP(TI)
IC4	8-759-145-58	s	uPC4558C(NEC)
IC5	8-759-001-16	s	MC10116L(MOTOROLA)
IC6	8-759-200-60	s	TA7060AP(TOSHIBA)
IC7	8-750-000-74	s	CX20061(SONY)
IC8	8-765-222-20	s	TRANSISTOR 2SC1963
IC9	8-765-222-20	s	TRANSISTOR 2SC1963
IC10	8-759-220-74	s	TC40H074P(TOSHIBA)
IC11	8-759-925-25	s	HA7-2525-5(HARRIS)
IC12	8-759-131-11	s	uPC311C(NEC)
IC13	8-759-902-21	s	SN74LS221N(TI)
IC14	8-759-926-10	s	TL610CP(TI)
IC15	8-759-926-10	s	TL610CP(TI)
IC16	8-759-900-03	s	SN74LS03N(TI)
IC17	8-759-103-19	s	uPC319C(NEC)
IC201	8-741-128-20	s	BX1282(SONY)
IC202	8-749-936-51	s	BX365A(SONY)
IC203	8-759-990-82	s	TL082CP(TI)
IC204	8-759-145-58	s	uPC4558C(NEC)
IC205	8-759-001-16	s	MC10116L(MOTOROLA)
IC206	8-759-200-60	s	TA7060AP(TOSHIBA)
IC207	8-750-000-74	s	CX20061(SONY)
IC208	8-765-222-20	s	TRANSISTOR 2SC1963
IC209	8-765-222-20	s	TRANSISTOR 2SC1963
IC210	8-759-220-74	s	TC40H074P(TOSHIBA)
IC211	8-759-925-25	s	HA7-2525-5(HARRIS)
IC212	8-759-131-11	s	uPC311C(NEC)
IC213	8-759-902-21	s	SN74LS221N(TI)
IC214	8-759-926-10	s	TL610CP(TI)
IC215	8-759-926-10	s	TL610CP(TI)
IC401	8-751-340-00	s	CX134A(SONY)
IC402	8-759-951-07	s	SN75107AN(TI)
IC403	8-741-114-00	s	BX1140(SONY)
IC404	8-759-208-94	s	CX894(SONY)
IC406	8-759-700-14	s	NJM78M09A(JRC)
IC411	8-759-179-05	s	uPC7905H(NEC)
IC412	8-759-001-16	s	MC10116L(MOTOROLA)
IC413	8-759-001-98	s	MC10198L(MOTOROLA)
IC414	8-759-907-34	s	uA733HC(FSC)
IC508	8-749-938-90	s	BX389(SONY)
IC509	8-759-200-60	s	TA7060AP(TOSHIBA)
IC510	8-759-200-60	s	TA7060AP(TOSHIBA)
IC602	8-749-936-51	s	BX365A(SONY)
IC603	8-749-936-61	s	BX366A(SONY)
IC608	8-759-906-07	s	TL607CP(TI)
IC611	8-741-109-90	s	BX1099(SONY)
IC612	8-749-938-80	s	BX388(SONY)
IC615	8-759-200-60	s	TA7060AP(TOSHIBA)
IC701	8-751-340-00	s	CX134A(SONY)
IC702	8-759-951-07	s	SN75107AN(TI)

Ref.No.	Parts No.	SP	Description
IC703	8-741-109-80	s	BX1098(SONY)
IC706	8-741-114-00	s	BX1140(SONY)
IC707	8-759-208-94	s	CX894(SONY)
IC714	8-749-936-51	s	BX365A(SONY)
IC715	8-759-001-16	s	MC10116L(MOTOROLA)
IC716	8-759-001-98	s	MC10198L(MOTOROLA)
IC717	8-759-907-34	s	uA733HC(FSC)
IC810	8-749-938-90	s	BX389(SONY)
IC811	8-759-200-60	s	TA7060AP(TOSHIBA)
IC812	8-759-200-60	s	TA7060AP(TOSHIBA)
FL401	1-235-190-00	s	LPF
FL701	1-235-284-00	s	LPF
L401	1-407-504-00	s	MICRO 10mH
L402	1-407-504-00	s	MICRO 10mH
L428	1-459-155-00	s	45
L429	1-459-155-00	s	45
L430	1-459-155-00	s	45
L622	1-407-500-00	s	MICRO 4.7mH
L701	1-407-504-00	s	MICRO 10mH
L702	1-407-504-00	s	MICRO 10mH
LV1	1-407-569-00	s	VAR,10
LV201	1-407-569-00	s	VAR,10
LV401	1-407-568-00	s	VAR,6.8
LV402	1-407-568-00	s	VAR,6.8
LV701	1-407-568-00	s	VAR,6.8
LV702	1-407-568-00	s	VAR,6.8
Q1	8-724-375-01	s	2SC403C
Q5	8-724-375-01	s	2SC403C
Q6	8-724-375-01	s	2SC403C
Q7	8-724-375-01	s	2SC403C
Q8	8-729-173-37	s	2SA733-P
Q9	8-729-173-37	s	2SA733-P
Q10	8-724-375-01	s	2SC403C
Q11	8-724-375-01	s	2SC403C
Q12	8-724-375-01	s	2SC403C
Q13	8-724-375-01	s	2SC403C
Q14	8-724-375-01	s	2SC403C
Q18	8-724-375-01	s	2SC403C
Q19	8-729-112-06	s	2SA1206
Q20	8-729-112-06	s	2SA1206
Q21	8-729-173-37	s	2SA733-P
Q22	8-765-300-00	s	2SC2009
Q23	8-765-300-00	s	2SC2009
Q24	8-765-300-00	s	2SC2009
Q25	8-765-300-00	s	2SC2009
Q26	8-729-663-47	s	2SC1364
Q27	8-729-173-37	s	2SA733-P
Q28	8-729-663-47	s	2SC1364
Q29	8-724-375-01	s	2SC403C
Q30	8-724-375-01	s	2SC403C
Q31	8-724-375-01	s	2SC403C
Q32	8-724-375-01	s	2SC403C
Q33	8-724-375-01	s	2SC403C
Q36	8-724-375-01	s	2SC403C
Q37	8-729-663-47	s	2SC1364
Q38	8-724-375-01	s	2SC403C
Q40	8-724-375-01	s	2SC403C
Q41	8-724-375-01	s	2SC403C
Q42	8-729-201-05	s	2SC2878-B
Q43	8-729-173-37	s	2SA733-P
Q44	8-729-173-37	s	2SA733-P

Ref.No.	Parts No.	SP	Description
Q45	8-724-375-01	s	2SC403C
Q46	8-729-112-06	s	2SA1206
Q47	8-724-375-01	s	2SC403C
Q48	8-724-375-01	s	2SC403C
Q49	8-729-201-05	s	2SC2878-B
Q50	8-729-201-05	s	2SC2878-B
Q51	8-729-201-05	s	2SC2878-B
Q52	8-729-201-05	s	2SC2878-B
Q53	8-729-663-47	s	2SC1364
Q201	8-724-375-01	s	2SC403C
Q205	8-724-375-01	s	2SC403C
Q206	8-724-375-01	s	2SC403C
Q207	8-724-375-01	s	2SC403C
Q208	8-729-173-37	s	2SA733-P
Q209	8-729-173-37	s	2SA733-P
Q210	8-724-375-01	s	2SC403C
Q211	8-724-375-01	s	2SC403C
Q212	8-724-375-01	s	2SC403C
Q213	8-724-375-01	s	2SC403C
Q214	8-724-375-01	s	2SC403C
Q218	8-724-375-01	s	2SC403C
Q219	8-729-112-06	s	2SA1206
Q220	8-729-112-06	s	2SA1206
Q221	8-729-173-37	s	2SA733-P
Q222	8-765-300-00	s	2SC2009
Q223	8-765-300-00	s	2SC2009
Q224	8-765-300-00	s	2SC2009
Q225	8-765-300-00	s	2SC2009
Q226	8-729-663-47	s	2SC1364
Q227	8-729-173-37	s	2SA733-P
Q228	8-729-663-47	s	2SC1364
Q229	8-724-375-01	s	2SC403C
Q230	8-724-375-01	s	2SC403C
Q231	8-724-375-01	s	2SC403C
Q232	8-724-375-01	s	2SC403C
Q233	8-724-375-01	s	2SC403C
Q236	8-724-375-01	s	2SC403C
Q239	8-724-375-01	s	2SC403C
Q240	8-724-375-01	s	2SC403C
Q241	8-724-375-01	s	2SC403C
Q242	8-729-201-05	s	2SC2878-B
Q243	8-729-173-37	s	2SA733-P
Q244	8-729-173-37	s	2SA733-P
Q245	8-724-375-01	s	2SC403C
Q246	8-729-112-06	s	2SA1206
Q247	8-724-375-01	s	2SC403C
Q248	8-724-375-01	s	2SC403C
Q401	8-724-375-01	s	2SC403C
Q402	8-724-375-01	s	2SC403C
Q403	8-724-375-01	s	2SC403C
Q404	8-724-375-01	s	2SC403C
Q405	8-724-375-01	s	2SC403C
Q406	8-729-173-37	s	2SA733-P
Q407	8-724-375-01	s	2SC403C
Q408	8-724-375-01	s	2SC403C
Q409	8-724-375-01	s	2SC403C
Q410	8-724-375-01	s	2SC403C
Q411	8-729-663-47	s	2SC1364
Q412	8-729-374-02	s	2SB740
Q413	8-724-375-01	s	2SC403C
Q414	8-724-375-01	s	2SC403C
Q415	8-724-375-01	s	2SC403C
Q416	8-724-375-01	s	2SC403C
Q418	8-729-201-05	s	2SC2878-B
Q420	8-729-190-12	s	2SC2901

Ref.No.	Parts No.	SP	Description
Q421	8-729-110-53	s	2SA1005
Q422	8-729-110-53	s	2SA1005
Q423	8-724-375-01	s	2SC403C
Q424	8-724-375-01	s	2SC403C
Q425	8-724-375-01	s	2SC403C
Q426	8-729-201-05	s	2SC2878-B
Q427	8-724-375-01	s	2SC403C
Q430	8-724-375-01	s	2SC403C
Q497	8-729-600-24	s	2SC403SP
Q517	8-724-375-01	s	2SC403C
Q518	8-724-375-01	s	2SC403C
Q519	8-729-603-50	s	2SC403SP
Q520	8-724-375-01	s	2SC403C
Q521	8-724-375-01	s	2SC403C
Q522	8-724-375-01	s	2SC403C
Q523	8-724-375-01	s	2SC403C
Q603	8-724-375-01	s	2SC403C
Q604	8-724-375-01	s	2SC403C
Q606	8-724-375-01	s	2SC403C
Q701	8-724-375-01	s	2SC403C
Q702	8-724-375-01	s	2SC403C
Q703	8-729-201-05	s	2SC2878-B
Q704	8-724-375-01	s	2SC403C
Q705	8-729-173-37	s	2SA733-P
Q706	8-724-375-01	s	2SC403C
Q707	8-724-375-01	s	2SC403C
Q708	8-724-375-01	s	2SC403C
Q711	8-729-201-05	s	2SC2878-B
Q712	8-724-375-01	s	2SC403C
Q713	8-724-375-01	s	2SC403C
Q714	8-724-375-01	s	2SC403C
Q716	8-729-190-12	s	2SC2901
Q717	8-729-110-53	s	2SA1005
Q718	8-729-110-53	s	2SA1005
Q719	8-724-375-01	s	2SC403C
Q720	8-724-375-01	s	2SC403C
Q813	8-724-375-01	s	2SC403C
Q814	8-724-375-01	s	2SC403C
Q815	8-729-603-50	s	2SC403SP
Q816	8-724-375-01	s	2SC403C
Q817	8-724-375-01	s	2SC403C
Q818	8-724-375-01	s	2SC403C
Q819	8-724-375-01	s	2SC403C
Q1001	8-729-201-05	s	2SC2878-B
Q1100	8-724-375-01	s	2SC403C
Q1101	8-729-201-05	s	2SC2878-B
R515	1-214-525-00	s	METAL 47 1% 1/8W
R516	1-214-525-00	s	METAL 47 1% 1/8W
R519	1-214-545-00	s	METAL 330 1% 1/8W
R814	1-214-525-00	s	METAL 47 1% 1/8W
R815	1-214-525-00	s	METAL 47 1% 1/8W
R818	1-214-545-00	s	METAL 330 1% 1/8W
RV1	1-228-292-00	s	VAR,CERMET 2K
RV4	1-224-937-00	s	VAR,CERMET 1K
RV5	1-228-292-00	s	VAR,CERMET 2K
RV6	1-228-294-00	s	VAR,CERMET 10K
RV7	1-228-292-00	s	VAR,CERMET 2K
RV8	1-228-289-00	s	VAR,CERMET 200
RV10	1-228-292-00	s	VAR,CERMET 2K
RV11	1-228-292-00	s	VAR,CERMET 2K
RV12	1-228-293-00	s	VAR,CERMET 5K
RV202	1-228-292-00	s	VAR,CERMET 2K

Ref.No.	Parts No.	SP	Description
RV204	1-228-291-00	s	VAR,CERMET 1K
RV205	1-228-292-00	s	VAR,CERMET 2K
RV206	1-228-294-00	s	VAR,CERMET 10K
RV207	1-228-292-00	s	VAR,CERMET 2K
RV208	1-228-289-00	s	VAR,CERMET 200
RV210	1-228-292-00	s	VAR,CERMET 2K
RV211	1-228-292-00	s	VAR,CERMET 2K
RV212	1-228-293-00	s	VAR,CERMET 5K
RV401	1-228-292-00	s	VAR,CERMET 2K
RV402	1-228-292-00	s	VAR,CERMET 2K
RV403	1-228-295-00	s	VAR,CERMET 20K
RV404	1-228-292-00	s	VAR,CERMET 2K
RV405	1-228-291-00	s	VAR,CERMET 1K
RV406	1-228-295-00	s	VAR,CERMET 20K
RV408	1-228-291-00	s	VAR,CERMET 1K
RV409	1-228-290-00	s	VAR,CERMET 500
RV410	1-228-292-00	s	VAR,CERMET 2K
RV415	1-228-289-00	s	VAR,CERMET 200
RV416	1-228-292-00	s	VAR,CERMET 2K
RV511	1-228-292-00	s	VAR,CERMET 2K
RV512	1-228-292-00	s	VAR,CERMET 2K
RV513	1-228-292-00	s	VAR,CERMET 2K
RV514	1-228-292-00	s	VAR,CERMET 2K
RV515	1-228-292-00	s	VAR,CERMET 2K
RV516	1-228-461-00	s	VAR,CERMET 50K
RV601	1-228-293-00	s	VAR,CERMET 5K
RV604	1-228-291-00	s	VAR,CERMET 1K
RV605	1-228-291-00	s	VAR,CERMET 1K
RV606	1-228-290-00	s	VAR,CERMET 500
RV701	1-228-292-00	s	VAR,CERMET 2K
RV702	1-228-292-00	s	VAR,CERMET 2K
RV703	1-228-295-00	s	VAR,CERMET 20K
RV704	1-228-293-00	s	VAR,CERMET 5K
RV706	1-228-292-00	s	VAR,CERMET 2K
RV707	1-228-291-00	s	VAR,CERMET 1K
RV708	1-228-295-00	s	VAR,CERMET 20K
RV716	1-228-289-00	s	VAR,CERMET 200
RV717	1-228-292-00	s	VAR,CERMET 2K
RV718	1-228-295-00	s	VAR,CERMET 20K
RV812	1-228-292-00	s	VAR,CERMET 2K
RV813	1-228-457-00	s	VAR,CERMET 2K
RV814	1-228-292-00	s	VAR,CERMET 2K
RV815	1-228-292-00	s	VAR,CERMET 2K
RV816	1-228-292-00	s	VAR,CERMET 2K
RV1100	1-228-293-00	s	VAR,CERMET 5K
TH701	1-800-202-XX	s	S-10K
TH1001	1-800-202-XX	s	S-10K
TH1002	1-800-202-XX	s	S-10K
TH1003	1-800-202-XX	s	S-10K
TH1004	1-800-202-XX	s	S-10K

Ref.No.	Parts No.	SP	Description
FRAME			
	A-6050-264-A	s	HEAD DRUM ASS'Y,DSH-45A-R
	A-6762-183-A	s	DRUM ASS'Y,UPPER,DSR-45-R
⚠	1-413-166-11	s	SWITCHING REGULATOR,UR-09
	1-557-231-11	o	FLAT CABLE ASS'Y,40P MB-49 TO KY-45
	1-557-232-11	o	FLAT CABLE ASS'Y,50P MB-49 TO MB-52
	1-586-633-00	s	CONDENSATION SENSOR
⚠ CN001	1-508-840-00	o	RECEPTACLE,9P
	1-508-839-00	o	HOUSING,9P
	1-535-070-00	o	CONTACT
CN002	1-509-546-00	s	RECEPTACLE,3P "AC IN"
CN551	1-561-781-21	s	RECEPTACLE,BNC "REF VIDEO IN"
CN552	1-561-781-21	s	RECEPTACLE,BNC "REF VIDEO IN"
CN553	1-561-781-21	s	RECEPTACLE,BNC "VIDEO IN"
CN554	1-561-781-21	s	RECEPTACLE,BNC "VIDEO IN"
CN555	1-561-781-21	s	RECEPTACLE,BNC "VIDEO OUT"
CN556	1-561-781-21	s	RECEPTACLE,BNC "VIDEO OUT"
CN557	1-564-407-11	s	RECEPTACLE,12P,MALE "DUB/COMPONENT IN"
CN558	1-562-160-00	s	RECEPTACLE,12P,FEMALE "DUB/COMPONENT OUT"
CN559	1-561-045-00	s	RECEPTACLE,7P,FEMALE "DUB (U-MATIC) OUT"
CN560	1-509-095-00	s	RECEPTACLE,8P "MONITOR OUT"
CN561	1-509-184-31	s	RECEPTACLE,XLR,FEMALE "CH-1 IN"
CN562	1-509-184-31	s	RECEPTACLE,XLR,FEMALE "CH-2 IN"
CN563	1-509-176-31	s	RECEPTACLE,XLR,MALE "CH-1 OUT"
CN564	1-509-176-31	s	RECEPTACLE,XLR,MALE "CH-2 OUT"
CN565	1-509-176-31	s	RECEPTACLE,XLR,MALE "MONITOR OUT"
CN566	1-509-184-31	s	RECEPTACLE,XLR,FEMALE "TIME CODE IN"
CN567	1-509-176-31	s	RECEPTACLE,XLR,MALE "TIME CODE OUT"
CN568	1-564-600-11	s	RECEPTACLE,15P,FEMALE "TBC REMOTE IN"
CN570	1-561-781-21	s	RECEPTACLE,BNC "REF. VIDEO OUT"
CN901	1-508-839-00	o	PULG HOUSING,9P (to SW'ing REG.)
	1-535-070-00	o	CONTACT,MALE
CN902	1-509-889-00	o	PULG HOUSING,12P (to SW'ing REG.)
	1-535-070-00	o	CONTACT,MALE
⚠ CN903	1-509-890-00	o	RECEPTACLE HOUSING,12P (to SW'ing REG.)
	1-535-072-00	s	CONTACT,FEMALE
H901	8-825-544-20	s	"FULL ERASE"
H902	8-825-554-72	s	PS244-21A "CTL"
H903	A-6736-041-A	s	HEAD ASS'Y,AT EPS244-2103 "AUDIO/TIME CODE"

Ref.No.	Parts No.	SP	Description
M801	1-541-163-00	s	DC "CASSETTE-UP"
M841	1-541-163-00	s	DC "THREADING"
M901	A-6737-113-B	s	MOTOR ASS'Y "S-REEL"
M902	A-6737-113-B	s	MOTOR ASS'Y "T-REEL"
M903	8-838-067-01	s	DC,BHF-1912B "CAPSTAN"
M904	1-541-240-00	s	DC,FAN
M905	1-541-240-00	s	DC,FAN
ME601	1-520-439-00	s	"AUDIO CH-1"
ME602	1-520-439-00	s	"AUDIO CH-2"
ME603	1-520-438-00	s	"VIDEO/RF"
PL601	1-518-461-00	s	14V 50mA "AUDIO CH-1 METER"
PL602	1-518-461-00	s	14V 50mA "AUDIO CH-1 METER"
PL603	1-518-461-00	s	14V 50mA "AUDIO CH-2 METER"
PL604	1-518-461-00	s	14V 50mA "AUDIO CH-2 METER"
PL605	1-518-461-00	s	14V 50mA "VIDEO/RF METER"
PL606	1-518-461-00	s	14V 50mA "VIDEO/RF METER"
PL801	1-518-508-00	s	12V 60mA "CASSETTE LAMP"
PL802	1-518-508-00	s	12V 60mA "CASSETTE LAMP"
PM771	1-454-372-11	s	"CLEANER"
PM772	1-454-338-00	s	"PINCH"
PM881	1-454-336-00	s	"T-BRAKE"
PM882	1-454-336-00	s	"S-BRAKE"
PM883	1-454-337-00	s	"MAIN BRAKE"
S601	1-516-608-00	s	SLIDE "BYPASS ON/OFF"
⚠ S901	1-554-256-00	s	ROCKER "POWER"
TM601	1-548-100-11	s	"HOURS METER"

19-4. PACKING MATERIAL AND ACCESSORY (SUPPLIED)

Parts No.	SP	Description
A-6728-928-A	s	EXTENSION BOARD,EX-35
1-560-919-21	o	RECEPTACLE,60P,FEMALE
A-6728-929-A	s	EXTENSION BOARD,EX-36
1-561-654-00	o	RECEPTACLE,86P,FEMALE
A-6728-930-A	s	EXTENSION BOARD,EX-42
1-561-654-00	o	RECEPTACLE,86P,FEMALE
⚠ 1-556-760-11	s	CORD,POWER (3 CORE)
1-557-413-11	s	12PIN DUBBING CABLE
1-560-995-00	s	PLUG,12PIN,MALE
1-562-159-00	s	PLUG,12PIN,FEMALE
3-146-409-01	s	CUSHION
3-683-612-21	o	INDIVIDUAL CARTON
3-683-613-02	o	CUSHION,UPPER
3-688-812-01	o	SPACER SIDE
3-683-615-03	o	CUSHION (FRONT),LOWER
3-683-616-03	o	CUSHION (REAR),LOWER
3-701-632-00	s	BAG,POLY (FOR EXTENSION BOARD) (FOR MANUAL)
3-701-649-00	s	BAG,POLY (FOR BVW-40S)
Standard products		9PIN REMOTE CONTROL CABLE
1-560-651-00	s	PLUG,9PIN,MALE
1-561-749-00	s	SHELL

19-5. FIXTURE (OPTION)

Parts No.	SP	Description
J-6001-820-A	s	DRUM ECCENTRICITY GAUGE (3)
J-6001-830-A	s	DRUM ECCENTRICITY GAUGE (2)
J-6001-840-A	s	DRUM ECCENTRICITY GAUGE (1)
J-6087-000-A	s	DRUM ECCENTRICITY GAUGE (5)
J-6080-008-A	s	CASSETTE REFERENCE PLATE
J-6080-011-A	s	REEL TABLE TENSION GAUGE
J-6080-013-A	s	DIHEDRAL ADJUSTMENT SCREW
J-6080-570-A	s	FLATNESS PLATE
J-6150-960-A	s	REEL MOTOR SLANTNESS CHECK JIG
J-6190-800-A	s	TENSION REGULATOR SLANTNESS CHECK TOOL
Y-2031-001-0	s	CLEANING FLUID
2-034-697-00	s	CLEANING PIECE
7-732-050-01	s	TENSION SCALE (20G FULL SCALE)
7-732-050-20	s	TENSION SCALE (50G FULL SCALE)
7-732-050-30	s	TENSION SCALE (100G FULL SCALE)
7-732-050-50	s	TENSION SCALE (500G FULL SCALE)
7-723-902-00	s	INSPECTION MIRROR
8-960-098-02	s	ALIGNMENT TAPE,CR2-1PS
8-960-098-22	s	ALIGNMENT TAPE,CR5-1PS
9-911-053-00	s	THICKNESS GAUGE
Standard products		HEAD DEMAGNETIZER (HE-3)